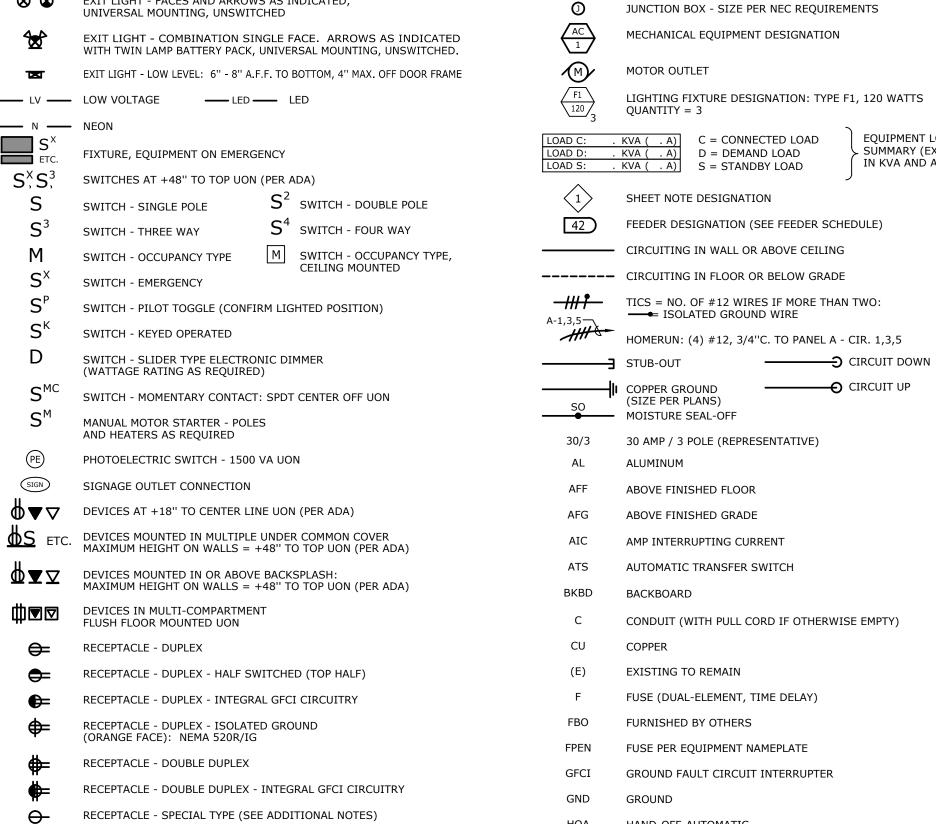
SHEET TITLE	BID PACKAGE 02 (100% SET) DATE: 03/27/18	* * *	* * *	* * *	* * *					
SYMBOL LIST	•									
GENERAL NOTES										
SINGLE LINE AND FOOD SERVICE SYSTEM NOTES	•									
SCHEDULES	•									
ELECTRICAL DIAGRAM	•									
SINGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSA'	•									
PARTIAL SINGLE LINE DIAGRAM	•									
SINGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSB'	•									
PARTIAL SINGLE LINE DIAGRAM	•									
PARTIAL SINGLE LINE DIAGRAM	•									
LIGHTING FIXTURE SCHEDULE	•									
ELECTRICAL SITE PLAN	•									
ELECTRICAL SITE PLAN - CCTV INFRASTRUCTURE	•									
ELECTRICAL OVERVIEW PLAN	•									
ENLARGED POWER PLAN - GAMING	•									
ENLARGED ELECTRICAL ROOM PLAN	•									
ENLARGED ELECTRICAL ROOM PLANS	•									
FOODSERVICE ELECTRICAL CONNECTION PLAN	•									
FOODSERVICE ELECTRICAL CONNECTION PLAN	•									
FOODSERVICE ELECTRICAL CONNECTION PLAN	•				_					
ΓΟΤΔΙ	20				-					
	YMBOL LIST ENERAL NOTES INGLE LINE AND FOOD SERVICE SYSTEM NOTES CHEDULES LECTRICAL DIAGRAM INGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSA' ARTIAL SINGLE LINE DIAGRAM INGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSB' ARTIAL SINGLE LINE DIAGRAM ARTIAL SINGLE LINE DIAGRAM ARTIAL SINGLE LINE DIAGRAM IGHTING FIXTURE SCHEDULE LECTRICAL SITE PLAN LECTRICAL SITE PLAN - CCTV INFRASTRUCTURE LECTRICAL OVERVIEW PLAN NLARGED POWER PLAN - GAMING NLARGED ELECTRICAL ROOM PLAN NLARGED ELECTRICAL ROOM PLAN ODDSERVICE ELECTRICAL CONNECTION PLAN	HEET TITLE YMBOL LIST ENERAL NOTES INGLE LINE AND FOOD SERVICE SYSTEM NOTES CHEDULES LECTRICAL DIAGRAM INGLE LINE DIAGRAM — MAIN SERVICE SWITCHBOARD 'TCMSA' ARTIAL SINGLE LINE DIAGRAM — MAIN SERVICE SWITCHBOARD 'TCMSB' ARTIAL SINGLE LINE DIAGRAM — MAIN SERVICE SWITCHBOARD 'TCMSB' ARTIAL SINGLE LINE DIAGRAM — MAIN SERVICE SWITCHBOARD 'TCMSB' ARTIAL SINGLE LINE DIAGRAM — MAIN SERVICE SWITCHBOARD 'TCMSB' ARTIAL SINGLE LINE DIAGRAM — MAIN SERVICE SWITCHBOARD 'TCMSB' LECTRICAL SITE PLAN — CLTV INFRASTRUCTURE LECTRICAL SITE PLAN — CCTV INFRASTRUCTURE LECTRICAL SITE PLAN — CCTV INFRASTRUCTURE LECTRICAL SITE PLAN — ONLY INFRASTRUCTURE LECTRICAL OVERVIEW PLAN — ONLY INFRASTRUCTURE LECTRICAL OVERVIEW PLAN — ONLY INFRASTRUCTURE LECTRICAL CONFECTION PLAN — ONLY INFRASTRUCTURE	HEET TITLE HEET TITLE YMBOL LIST ENERAL NOTES ENERAL NOTES O INGLE LINE AND FOOD SERVICE SYSTEM NOTES CHEDULES INGLE LINE DIAGRAM INGLE L	HEET TITLE HEET TITLE YMBOL LIST ENERAL NOTES INGLE LINE AND FOOD SERVICE SYSTEM NOTES CHEODULES LECTRICAL DIAGRAM INGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSA' ARTIAL SINGLE LINE DIAGRAM INGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSA' ARTIAL SINGLE LINE DIAGRAM ARTIAL SINGLE LINE DIA	HEET TITLE HEET TITLE WINDOL LIST ENERAL NOTES INGLE LINE AND FOOD SERVICE SYSTEM NOTES CHEODLES LECTRICAL DIAGRAM INGLE LINE DIAGRAM INGLE LINE DIAGRAM INGLE LINE DIAGRAM INGLE LINE DIAGRAM ARTIAL SINGLE LINE DIAGRAM INGLE LINE DIAGRAM INGL					

16 1/8" =1'-0"

ELECTRICAL CVMPOLLICT

	ELECTRICAL S	YMBOLI	_151					
NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS AND/OR ABBREVIATIONS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.								
	FLUORESCENT FIXTURE - RECESSED, LAY-IN		SWITCHGEAR					
	FLUORESCENT FIXTURE - RECESSED, FLANGED		PANELBOARD - SURFACE MOUNTED					
0	FLUORESCENT FIXTURE - SURFACE		PANELBOARD - FLUSH MOUNTED					
• •	FLUORESCENT FIXTURE - SUSPENDED		EXISTING / RELOCATED PANELBOARD - SURFACE MOUNTED					
$\overline{\vdash}$	FLUORESCENT FIXTURE - OPEN STRIP WITH WIRE GUARD	_	EXISTING / RELOCATED PANELBOARD - FLUSH MOUNTED					
व्या⊢ु∽	FLUORESCENT FIXTURE - WALL MOUNTED	Δ	TRANSFORMER					
0	INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - SURFACE OR RECESSED, PER FIXTURE SCHEDULE	В	ENCLOSED CIRCUIT BREAKER					
ОН	INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - WALL		FIRE ALARM EQUIPMENT					
O.	BRACKET	FSD	COMBINATION FIRE/SMOKE DAMPER					
0	INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - WALL WASH	SD	SMOKE DAMPER					
©	LOW VOLTAGE INCANDESCENT FIXTURE	⋖	SHUNT TRIP STATION					
	CHANDELIER (PROVIDE 5X STRUCTURAL BACKING)	ОН	CONTROL STATION AT +48" TO TOP UON (PER ADA)					
(O)	FAN (PROVIDE 5X STRUCTURAL BACKING)		RELAY					
	SPOTLIGHT - J-BOX OR TRACK MOUNTED - TRACK LENGTH	lacktriangledown	CONTACTOR WITH INTEGRAL HOA SELECTOR					
<u> </u>	AS INDICATED	\boxtimes	MAGNETIC STARTER, SIZE I UON					
	STEP LIGHT - SURFACE OR RECESSED, PER FIXTURE SCHEDULE	FP NP	DISCONNECT SWITCH: 30/3 UON (F=FUSIBLE (FPEN), N=NONFUSED)					
×	BOLLARD	⊠P	COMBINATION STARTER & DISCONNECT: SIZE I UON					
O• □•	POLE OR POST - ARM OR TOP MOUNTED CUT-OFF LUMINAIRE	VFD	VARIABLE FREQUENCY DRIVE					
₩	TWIN-LAMP BATTERY PACK - UNSWITCHED, WALL MOUNTED (LOCATE 12" BELOW CEILING U.O.N.)	₽	SINGLE-PHASE MOTOR CONTROL ASSEMBLY:					
	TWIN-LAMP BATTERY PACK - UNSWITCHED, CEILING MOUNTED,		HP-RATED SWITCH AND POWER RELAY-20/1 (U.O.N.)					
፟ 🐼 👁	FLUSH OR SURFACE PER FIXTURE SCHEDULE EXIT LIGHT - FACES AND ARROWS AS INDICATED,		PULLBOX - SIZE AND LOCATION AS REQUIRED					
₩ ₩	UNIVERSAL MOUNTING, UNSWITCHED	0	JUNCTION BOX - SIZE PER NEC REQUIREMENTS					
₩	EXIT LIGHT - COMBINATION SINGLE FACE. ARROWS AS INDICATED WITH TWIN LAMP BATTERY PACK, UNIVERSAL MOUNTING, UNSWITCHED.	AC	MECHANICAL EQUIPMENT DESIGNATION					
M	EXIT LIGHT - LOW LEVEL: 6" - 8" A.F.F. TO BOTTOM, 4" MAX. OFF DOOR FRAME	M	MOTOR OUTLET					
LV	LOW VOLTAGE —— LED —— LED	F1 120 3	LIGHTING FIXTURE DESIGNATION: TYPE F1, 120 WATTS QUANTITY = 3					
$\frac{1}{N}$	NEON		KVA (. A) C = CONNECTED LOAD EQUIPMENT LOAD					
S ^X ETC.	FIXTURE, EQUIPMENT ON EMERGENCY	LOAD D: .	KVA (. A) D = DEMAND LOAD SUMMARY (EXPRESSED IN KVA AND AMPS)					
S^X, S^3	SWITCHES AT +48" TO TOP UON (PER ADA)							
S	SWITCH - SINGLE POLE S ² SWITCH - DOUBLE POLE		SHEET NOTE DESIGNATION					
C 3	SWITCH FOUR WAY	42	FEEDER DESIGNATION (SEE FEEDER SCHEDULE)					



RECEPTACLE(S) - CEILING MOUNTED

TELEPOWER POLE

OUTLET - CLOCK

OUTLET - DATA

OUTLET - TELEPHONE

OUTLET - MICROPHONE

OUTLET - DOOR BELL/BUZZER

PLUG MOLD SURFACE RACEWAY SYSTEM (2-CIRCUIT WITH

OUTLET - VOLUME CONTROL (+48" TO TOP UON)

TV / SECURITY CAMERA - PTZ - PAN, TILT, ZOOM (MOUNTING PER PLANS)

OUTLET - SPEAKER 8" COAXIAL W/ BACK BOX AND GRILLE

OUTLET - THERMOSTAT (REF. MECHANICAL DRAWINGS)

TV / SECURITY CAMERA - FIXED (MOUNTING PER PLANS)

OUTLETS 18" O.C. U.O.N.) MOUNTED ABOVE BACKSPLASH U.O.N.

SMOKE DETECTOR - LOCAL ONLY, 120V, W/INTEGRAL BATTERY AND ALARM HORN. WALL MOUNT AT 12" BELOW CEILING

SMOKE DETECTOR - LOCAL ONLY, 120V, W/INTEGRAL BATTERY, STROBE, AND ALARM HORN. WALL MOUNT AT 12" BELOW CEILING

OUTLET - VOICE / DATA

OUTLET - TELEVISION

HAND-OFF-AUTOMATIC

(R) EXISTING TO BE RELOCATED

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION

UPS UNINTERRUPTIBLE POWER SUPPLY

UON UNLESS OTHERWISE NOTED

WP WEATHER PROOF (NEMA 3R)

(X) EXISTING TO BE REMOVED

RGS RIGID GALVANIZED STEEL

KCMIL (300 KCMIL = 300K)

HORSEPOWER

IG ISOLATED GROUND

NON-FUSED

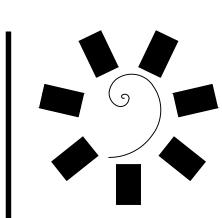
NIC NOT IN CONTRACT

NL NIGHT LIGHT

UNSW UNSWITCHED

XFMR TRANSFORMER

NTS NOT TO SCALE



James R. Childers Architect, Inc. 45 South 4th Street Fort Smith, AR 72901 479-783-2480



www.childersarchitect.com





NATION ENTERTAINME EQUAH CASINO HLEQUAH, OKLAHOMA

ROKEE NA TAHLE

BID PACKAGE 02 (100% SET)

	REVISIONS										
#	DATE	DESCRIPTION									

03/27/18 17-06 SYMBOL LIST

ELECTRICAL GENERAL NOTES

- 1.01 THE WORK: ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR ITS INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" IS DEFINED AS ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS, WHICH SHALL BE PROVIDED BY THIS CONTRACTOR WHETHER OR NOT SPECIFICALLY INDICATED OR NOTED.
- 1.02 RESPONSIBILITY: THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ACTIONS OF ITS PERSONNEL, SUPPLIERS, AND SUB-CONTRACTORS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK AS MAY BE REQUIRED TO ACCOMMODATE OR SUPPORT THE ELECTRICAL WORK. EXAMPLES: PAINTING, STRUCTURAL SUPPORTS, CUTTING AND PATCHING, EXCAVATION AND BACKFILL, CONCRETE PADS, ROOF JACKS, ETC. REQUIRING THIS CONTRACTOR'S ENGAGEMENT OF APPROPRIATE TRADES TO PERFORM SUCH WORK FOR THE PROPER INSTALLATION AND OPERATION OF COMPLETE ELECTRICAL SYSTEMS.
- 1.03 MINIMUM REQUIREMENTS: THESE SPECIFICATIONS ESTABLISH THE MINIMUM REQUIREMENTS FOR THE WORK AND MATERIALS, EQUIPMENT AND METHODS TO BE PROVIDED. THE DRAWINGS MAY INDICATE REQUIREMENTS WHICH EXCEED THESE MINIMUMS.
- 1.04 GENERAL CONDITIONS: ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.

1.05 <u>DEFINITIONS</u>:

AUTHORITY HAVING JURISDICTION.

- ASSEMBLY: AN INSTALLATION OR SYSTEM OF MULTIPLE COMPONENTS REQUIRING MULTIPLE CONNECTIONS. (EXAMPLES: TRASH COMPACTOR, MOTORIZED DOOR, HVAC SPLIT SYSTEM, ETC.).
- ACCEPTED BY THE ENGINEER AS EQUAL.
 - FURNISHINGS, FIXTURES AND EQUIPMENT PROVIDED BY OTHERS AT JOBSITE. RECEIVE, PROTECT, STORE, ASSEMBLE, INSTALL AND CONNECT. PROVIDE MINIMUM 5x STRUCTURAL BACKING. (EXAMPLES: CHANDELIERS, PROJECTORS, ETC.).
- PROVIDE: FURNISH, INSTALL, ACTIVATE, AND COMMISSION.
- 1.06 CODES: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL
- 1.07 PERMITS: PAY ALL FEES AND OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
- 1.08 DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE, AND INDICATE THE TYPE SIZE, ARRANGEMENT AND LOCATIONS OF MATERIALS AND EQUIPMENT. WORK INCLUDES CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES THAT MAY NOT BE SHOWN. PROVIDE ALL NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO REQUIRE FINISHED WORK, TESTED AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF FEEDERS AND BRANCH CIRCUITING SHALL BE PLUMB AND AT RIGHT ANGLES TO BUILDING CONSTRUCTION, AND MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS REQUIRING ONSITE REVISIONS DURING CONSTRUCTION. (SEE ALSO "BIDDING").
- 1.09 COORDINATION: THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION AND COOPERATION WITH OWNER, ARCHITECT, OTHER TRADES, VENDORS, AND SPECIALTY CONTRACTORS. CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, SHOP DRAWINGS, ETC. FOR ALL GENERAL CONSTRUCTION, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SPECIALTY CONTRACTOR WORK. PRIOR TO ROUGH-IN, COORDINATE THE WORK WITH ALL OTHER TRADES, TAKING RESPONSIBILITY FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS PLANNED WITHOUT INTERFERENCE WITH OTHER WORK. ESTABLISH AND VERIFY LOCATIONS, HEIGHTS, CONNECTION METHODS, ETC. WITH EQUIPMENT INSTALLER (AND OWNER, ARCHITECT, AND/OR INTERIOR DESIGNER FOR FF&E ITEMS), AND MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES IN ORDER TO PROVIDE ACCESS FOR THE PROPER EXECUTION OF THE WORK.
- 1.10 IDENTICAL: ALL WORK REQUIRED FOR IDENTICAL ITEMS AND ASSEMBLIES OF THE PROJECT SHALL BE PROVIDED, ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL.
- 1.11 VERIFICATION: CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATION(S) OR PROBLEM(S) SHALL BE TRANSMITTED TO THE ENGINEER FOR
- 1.12 CONNECTIONS: CONNECT ALL EQUIPMENT, SYSTEMS, AND ASSEMBLIES PROVIDED BY OTHERS INCLUDING CONTROLS, SAFETY DEVICES AND INTERCONNECTIONS. EXCEPTION: DO NOT INTERCONNECT THE CONTROL SYSTEMS OF THOSE MECHANICAL AND PLUMBING SYSTEMS WHICH ARE SPECIFICALLY NOTED TO BE THE RESPONSIBILITY OF THOSE TRADES. PROVIDE FUSIBLE DISCONNECT SWITCHES AND MOTOR STARTERS FOR ALL EQUIPMENT EXCEPT THOSE ITEMS WHICH ARE SPECIFICALLY LISTED WITH INTEGRAL STARTERS/DISCONNECT SWITCHES. WHERE STARTERS AND/OR DISCONNECT SWITCHES ARE FURNISHED TOGETHER WITH EQUIPMENT, RECEIVE, INSTALL, AND CONNECT THOSE ITEMS.
- 1.13 SUBMITTAL: SUBMIT TO THE ENGINEER COMPLETE ELECTRONIC SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN. THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER'S FAILURE TO CORRECT ERRORS IN THE SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK AS SHOWN AND/OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING FEES NECESSARY TO CHANGE PROJECT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.
- 1.14 OR-EQUAL SUBSTITUTIONS: ALL PROPOSED "OR EQUAL" SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR CONSIDERATION PRIOR TO BIDDING AND AFTER ALL REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT AND/OR MATERIALS HAVE BEEN COORDINATED WITH OTHER BUILDING TRADES, INCLUDING ALL MECHANICAL, STRUCTURAL, AND/OR ARCHITECTURAL ELEMENTS. THE OWNER'S REPRESENTATIVE SHALL PRE-APPROVE ANY PROPOSED SUBSTITUTION IN WRITING. IDENTIFY AND ANNOTATE ALL REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. ALSO IDENTIFY ALL COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE AND SUMMARIZE THESE AS A TOTAL NET-TO-OWNER CHARGE OR CREDIT FOR CONSIDERATION.
- 1.15 AS-BUILT: UPON COMPLETION OF CONSTRUCTION, SUPPLY THE ENGINEER WITH AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED. PROVIDE OPERATION AND MAINTENANCE MANUAL(S) CONTAINING APPROVED SHOP DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTION FOR SWITCHGEAR, LIGHTING FIXTURES, CONTROLS, AND
- 1.17 GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER (LONGER IF REQUIRED BY GENERAL AND/OR SPECIAL CONDITIONS). IN ADDITION, THE INSTALLATION SHALL BE GUARANTEED TO PERFORM AS SPECIFIED AND FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTOR'S INSTRUCTIONS. SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO, THE CONTRACTOR WILL, WITHOUT DELAY AND WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CORRECT THE DEFICIENCY AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. WHERE SPECIFIED EQUIPMENT HAS A LONGER GUARANTEE PERIOD, THE TERMS OF THAT GUARANTEE SHALL GOVERN (EXAMPLE: LED SYSTEM WITH 5 YEAR GUARANTEE). INCANDESCENT LAMPS ARE EXEMPT BUT SHALL BE NEW AND UNUSED AT THE TIME OF FINAL ACCEPTANCE.

1.19 SITE VISIT: CONTRACT DOCUMENTS INDICATE NEW WORK TO BE PERFORMED AND DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS. COMPARE THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS AGAINST EXISTING CONDITIONS, AND IDENTIFY AND ANNOTATE ALL WORK OR CONDITIONS THAT ARE DIFFERENT FROM THE CONTRACT DOCUMENTS OR THEIR INTENT. UPON DISCOVERY, IMMEDIATELY NOTIFY AND REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER. NO EXTRAS OR CHANGE ORDERS WILL BE ALLOWED FOR FAILURE TO PERFORM THE PRE-BID SITE

1.20 BASIS OF PROPOSAL: PROPOSAL SHALL BE BASED ON MANUFACTURERS AND MODELS AS LISTED UNLESS "OR EQUAL" IS INDICATED. PROVIDE SUBSTITUTION REQUESTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING TO ALLOW TIME FOR DUE CONSIDERATION OF PROPOSED ALTERNATE AND SUBSEQUENT NOTIFICATION TO ALL OTHER BIDDERS IN THE EVENT SUBSTITUTION IS DEEMED ACCEPTABLE. DETERMINATION OF SUBSTITUTION EQUALITY RESTS SOLELY WITH THE ENGINEER.

1.21 VALUE ENGINEERING (V.E.) INITIATIVES: IN ADDITION TO THE "AS SPECIFIED/OR EQUAL" BASE BID A COST REDUCTION INITIATIVE(S) MAY BE PROPOSED BASED ON SUBSTITUTIONS OF EQUIPMENT, MATERIALS, AND/OR METHODS. EACH SUCH PROPOSAL SHALL INCLUDE A DATA SHEET(S) ON THE SPECIFIED ITEM(S), THE PROPOSED SUBSTITUTE(S), AND THE NET CREDIT TO THE OWNER, INCLUDING ALL CREDITS AND CHARGES FROM ALL MEMBERS OF THE CONSTRUCTION TEAM. THE ENGINEER WILL REVIEW AND RENDER AN OPINION TO THE OWNER. IF THE V.E. INITIATIVE IS DECLINED, PROVIDE THE SPECIFIED EQUIPMENT/MATERIAL/METHOD. IF THE V.E. INITIATIVE IS ACCEPTED, AND IF SUCH ACCEPTANCE RESULTS IN A REQUIREMENT TO REVISE ANY DESIGN DOCUMENTS, THE CHARGES FOR THESE REVISIONS SHALL BE BILLED TO THE CONTRACTOR AND THE INVOICING SHALL BE SETTLED BEFORE THE PROJECT IS SIGNED OFF FOR FINAL ACCEPTANCE.

- 1.22 BIDDING: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN, AND/OR INTERIOR DRAWINGS CONTAIN DETAILED DESCRIPTIONS, CIRCUITING, AND CONNECTION REQUIREMENTS WHICH ARE PART OF THIS CONTRACTOR'S RESPONSIBILITIES. <u>DO NOT</u> SUBMIT BIDS ON THIS PROJECT PRIOR TO REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS, AND ADDENDA.
- 1.23 SPECIFICATIONS BOOK: THE SPECIFICATIONS CONTAIN SIGNIFICANT INFORMATION, CONDITIONS, AND PROCEDURES WHICH MAY HAVE A SUBSTANTIAL IMPACT ON THIS CONTRACTOR'S COSTS. DO NOT SUBMIT A BID ON THIS PROJECT UNLESS THE SPECIFICATIONS HAVE BEEN THOROUGHLY REVIEWED. THE GENERAL NOTES CONTAINED HEREIN ARE COMPLIMENTARY TO THE SPECIFICATIONS BOOK, AND IN COMPARISON THE MORE STRINGENT REQUIREMENT(S) SHALL GOVERN.

- 2.01 EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). EQUIPMENT SHALL BE CONSTRUCTED TO NEMA STANDARDS AND SHALL BE LABELED FOR THEIR INTENDED PURPOSE BY A RECOGNIZED TESTING AGENCY ACCEPTABLE TO THE AHJ (U.L., CSA, ETL, ETC.).
- 2.02 ACCEPTABLE MANUFACTURERS AND SUPPLIERS: WHERE EQUIPMENT AND MATERIALS ARE NOT SPECIFIED BY NAME THEY ARE DEEMED TO GENERIC, SUBJECT TO THE REQUIREMENTS LISTED HEREIN. THESE MANUFACTURERS ARE CONSIDERED CAPABLE OF OFFERING EQUIVALENT PRODUCTS. MINIMUM STANDARD IN ALL INSTANCES IS COMMERCIAL GRADE:
- SWITCHGEAR: EATON, GENERAL ELECTRIC, SIEMENS, SQUARE D
- LIGHT FIXTURES: ACUITY, COOPER, HUBBELL, THOMAS WIRING DEVICES: HUBBELL, LEVITON, LEGRAND, WIREMOLD
- 2.03 CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL INSULATED THROAT SET SCREW FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. IMC OR RIGID CONDUIT BELOW GRADE SHALL BE HALF-LAP WRAPPED WITH 20 MIL PVC TAPE. TYPE ENT RACEWAY IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND/OR VIBRATING EQUIPMENT WITH STEEL FLEX OR SEALTITE CONDUIT. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY.
- 2.04 MC CABLE: MC CABLE MAY BE USED ONLY WITH SPECIFIC PERMISSION FROM THE ENGINEER. MC CABLE USE SHALL BE LIMITED TO CIRCUITING SOLUTIONS IN TIGHT CONDITIONS WHERE CONDUIT AND WIRE CIRCUITING CANNOT FIT. HOMERUNS AND FEEDERS SHALL BE CONDUIT AND WIRE.
- 2.05 WIRING: ALL WIRE SHALL BE COPPER UNLESS OTHERWISE NOTED, STRANDED IN SIZES #8 AWG AND LARGER. WHERE ALUMINUM IS INDICATED, WIRE SHALL BE COMPACTED-STRAND TYPE WITH JOINT COMPOUND AT TERMINATIONS. INSULATION SHALL BE TYPE THWN OR THHN (XHHW FOR ALUMINUM). ALUMINUM CONDUCTORS SHALL NOT BE USED IN SIZES SMALLER THAN #1/0 (100A EQUIPMENT FEEDER), AND WHEN USED SHALL BE TERMINATED IN INSULATED COMPRESSION-TYPE CU/AL FITTING. SINGLE PHASE BRANCH CIRCUITS SHALL INCLUDE A SEPARATE NEUTRAL WIRE WITH EACH PHASE WIRE. NEUTRAL SHALL BE WHITE WITH COLOR STRIPE MATCHING COLOR OF PHASE
- 2.06 FUSES AND CIRCUIT BREAKERS: FUSES AND CIRCUIT BREAKERS SHALL BE SIZED PER ACTUAL RESPECTIVE APPLICATION (i.e., MOTOR CIRCUIT PROTECTOR, GROUND FAULT CIRCUIT INTERRUPTER, ARC FAULT CIRCUIT INTERRUPTER, ETC.). FUSES SHALL BE DUAL ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. PROVIDE LOCKABLE SPARE FUSE CABINET WITH (3) SPARE FUSES OF EACH SIZE USED.
- 2.07 DISTRIBUTION SWITCHGEAR: SWITCHGEAR SHALL HAVE ALUMINUM BUS AND HEAVY GAUGE HOUSINGS. SWITCHGEAR IN LOCATIONS OTHER THAN LOCKED ELECTRIC ROOMS SHALL HAVE LOCKABLE COVERS. SWITCHGEAR SHALL HAVE NO LESS THAN 20% SPARE BUSSED AND USABLE SPACE, MEASURED AS A PERCENTAGE OF THE SPACE OCCUPIED BY SPECIFIED CIRCUIT BREAKERS,
- 2.08 <u>SERVICE SWITCHGEAR</u>: IN ADDITION TO THE ABOVE, SERVICE SWITCHGEAR SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY.
- 2.09 PANELBOARDS: PANELS SHALL HAVE ALUMINUM BUS AND HARDWARE, BOLT-ON CIRCUIT BREAKERS, FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR-IN-DOOR) WITH LOCKABLE MASTER-KEYED FLUSH LATCHES. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: (1) 3/4" CONDUIT FOR EACH THREE (3) SPARE/SPACE CIRCUITS.
- 2.10 SAFETY SWITCHES: SWITCHES SHALL BE GENERAL DUTY UP TO 250 VOLTS, HEAVY DUTY ABOVE 250 VOLTS. FUSIBLE SWITCHES SHALL BE FUSED PER THE NAMEPLATE REQUIREMENTS OF THE EQUIPMENT BEING CONNECTED.
- 2.11 MOTOR STARTERS: STARTERS SHALL BE MINIMUM NEMA SIZE 1 WITH INTEGRAL CONTROL TRANSFORMER, RED NEON "RUN" PILOT LIGHT AND "ON-OFF-AUTO" SELECTOR SWITCH ON COVER. OVERLOAD DEVICES SHALL BE SIZED PER THE NAMEPLATE AMPERAGE OF THE EQUIPMENT BEING CONTROLLED.
- 2.12 CONTACTORS: CONTACTORS SHALL BE ELECTRICALLY HELD WITH "ON-OFF-AUTO" SELECTOR SWITCH
- ON COVER. 2.13 RATINGS: ALL ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR BRACING IN EXCESS OF THE MAXIMUM AVAILABLE FAULT CURRENT CALCULATED AND SHOWN AT THE EQUIPMENT CONNECTION POINT WITHIN THE DISTRIBUTION SYSTEM. MINIMUM RATING SHALL BE 10K AIC.
- 2.14 WIRING DEVICES: WIRING DEVICES (SWITCHES, RECEPTACLES, ETC.) SHALL BE SPECIFICATION GRADE "DECORA" STYLE, MINIMUM 20-AMP RATED. COVER PLATES SHALL BE NYLON. DEVICE AND PLATE COLOR(S) SHALL BE AS SPECIFIED BY ARCHITECT OR INTERIOR DESIGNER - VERIFY PRIOR TO COMMENCEMENT OF WORK. WIRING DEVICES EXPOSED TO THE ELEMENTS SHALL HAVE WEATHERPROOF-IN-USE LOCKABLE COVERS. RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. REFER TO FOOD SERVICE NOTES (IF APPLICABLE TO THIS PROJECT) FOR ADDITIONAL
- 2.15 TRANSFORMERS: TRANSFORMERS SHALL BE TYPE TP-1 MINIMUM, WITH ALUMINUM WINDINGS, RATED FOR 150°C RISE (UNLESS OTHERWISE NOTED), MOUNTED ON RUBBER-IN-SHEAR VIBRATION ISOLATORS, CONNECTED WITH FLEXIBLE CONDUIT. PUBLISHED AND MEASURED NOISE RATING SHALL NOT EXCEED NEMA TP-20 MAXIMUM.
- 2.16 LIGHTING FIXTURES: LIGHT FIXTURES SHALL BE PROVIDED WITH ALL ASSOCIATED HARDWARE (HANGER BARS, PENDANTS, STEMS, RESTRAINTS, CHAINS, CORDS, LAMPS, ETC.). LENSES SHALL BE ACRYLIC, REFLECTORS SHALL BE ANODIZED. FLUORESCENT BALLASTS SHALL BE ELECTRONIC, PROGRAM RAPID START, THD LESS THAN 10%. FLUORESCENT LAMPS SHALL HAVE MINIMUM CRI OF 80%. INCANDESCENT LAMPS SHALL BE 130 VOLT, INSIDE FROST, MINIMUM 2000 HOUR LIFE. LOW VOLTAGE INCANDESCENT LAMPS SHALL BE HIR HALOGEN, MINIMUM 3000 HOUR LIFE. EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED TO PREVENT WATER, DUST AND INSECT INTRUSION, WITH GASKETING FOR DOOR/BACKPLATE AND SEALANT AT THE WIRING ENTRY POINT. REFER TO LIGHTING FIXTURE SCHEDULE WITHIN PLAN SET FOR ADDITIONAL REQUIREMENTS (LED CRITERIA, ETC.).
- 2.17 IDENTIFICATION: IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS, AND ELECTRICALLY-CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED. IDENTIFY WIRING DEVICES WITH SELF ADHESIVE CLEAR SATIN FINISH LABELS WITH SOURCE AND CIRCUIT NUMBER.

2.18 TAMPERPROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE DEMONSTRATED TO BE TAMPERPROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PAD LOCKABLE.

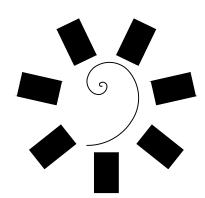
- 3.01 GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH THE REQUIREMENTS OF NEC ARTICLE 250. PROVIDE CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUIT RACEWAYS. WHERE ISOLATED GROUNDS ARE INDICATED, PROVIDE INSULATED CONDUCTOR (GREEN WITH YELLOW STRIPE).
- 3.02 <u>UTILITY SERVICES</u>: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY OTHERS).
- 3.03 TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER DISTRIBUTION AND LIGHTING AS REQUIRED FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT IN COMPLIANCE WITH ALL NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS).
- 3.04 LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER AT NO ADDED COST.
- 3.05 WORKMANSHIP: THE WORK SHALL BE INSTALLED PARALLEL AND AT RIGHT ANGLES TO THE BUILDING LINES, LEVEL AND PLUMB. THE WORK SHALL BE WELL SUPPORTED AND SOLIDLY MOUNTED. DRESS AND TIE WIRING IN PANELBOARDS AND SWITCHGEAR. THE WORK SHALL BE LEFT CLEAN WITH NO DIRT, DENTS, ABRASIONS, PAINT SPLATTERS, OR OTHER IRREGULARITIES.
- 3.06 FIRE STOPPING: ALL PENETRATED FIRE RATED SURFACES SHALL BE FIRE SEALED WITH APPROVED U.L. LISTED SEALANTS AS LISTED WITHIN ARCHITECTURAL SPECIFICATIONS. DO NOT EXCEED MAXIMUM ALLOWABLE SURFACE PENETRATIONS DEPENDENT ON RATING OF SURFACES. REFER TO ARCHITECTURAL DRAWINGS FOR DETERMINATION OF PENETRATION LOCATIONS THROUGH FIRE
- 3.07 SUPPORTS AND HANGERS: PROVIDE 3" HIGH HOUSEKEEPING CONCRETE PAD BENEATH FLOOR MOUNTED EQUIPMENT, EXTENDING 3" BEYOND EQUIPMENT FOOTPRINT. SUPPORT AND ALIGN ALL RACEWAYS, CABINETS, BOXES, BACK BOXES, FIXTURES, AND EQUIPMENT FROM STRUCTURE. SECURE ALL SUPPORTING METHODS BY MEANS OF TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION BOLTS IN SOLID MASONRY, CONCRETE PRESET INSERTS OR EXPANSION BOLTS IN CONCRETE, MACHINE SCREWS OR BOLTS IN METAL, AND WOOD SCREWS IN WOOD CONSTRUCTION. ALL SUPPORTING SYSTEMS AND COMPONENTS SHALL BE RATED FOR A MINIMUM OF FIVE (5) TIMES THE ACTUAL LOAD.
- 3.08 SLEEVES AND PENETRATIONS: PENETRATIONS OF ALL SURFACES SHALL BE PROVIDED WITH SLEEVES THAT SHALL BE SEALED WITH LIKE MATERIALS AND SHALL BE FINISHED WITH ESCUTCHEON PLATES. PENETRATIONS BELOW GRADE LEVEL SHALL BE WATERTIGHT. PENETRATIONS AT EXTERIOR WALLS SHALL BE WEATHERPROOF. ROOF PENETRATIONS SHALL BE FLASHED AND COUNTER FLASHED.
- 3.09 EXPANSION AND CONTRACTION: RACEWAYS PASSING THROUGH BUILDING EXPANSION JOINTS, ON ROOF, AND IN AREAS OF TEMPERATURE VARIATIONS GREATER THAN 30°F SHALL BE INSTALLED WITH EXPANSION FITTINGS.
- 3.10 IDENTIFICATION: IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS AND ELECTRICALLY-CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. BOXES SHALL BE MARKED WITH PANEL AND CIRCUIT NUMBERS (PERMANENT PEN ACCEPTABLE ABOVE CEILING). NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED. CONDUCTORS SHALL BE TAGGED WITH CIRCUIT NUMBERS AT SOURCE, JUNCTION BOXES, AND ALL OUTLET BOXES WITH PERMANENT ADHESIVE MARKER STRIP.
- 3.11 <u>ELECTRIC ROOM CODE COMPLIANCE</u>: DUE TO THE DIAGRAMMATIC NATURE OF THE DESIGN DOCUMENTS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, ETC.), COORDINATE WITH ALL OTHER SUBCONTRACTORS AT THE START OF THIS PROJECT TO INFORM AND VERIFY THAT NO FOREIGN SYSTEMS OR EQUIPMENT ARE MOUNTED ABOVE ELECTRICAL EQUIPMENT OR PASS THROUGH THE DESIGNATED ELECTRIC ROOMS, AND THAT A MINIMUM OF 7'-0" IS PROVIDED AS CLEAR HEADROOM ALONG ACCESS PATHS TO ELECTRIC ROOMS. ANY REROUTING OR RELOCATION OF SYSTEMS THAT A SUBCONTRACTOR FEELS WILL COMPROMISE THE DESIGN INTENT SHALL BE DESCRIBED IN WRITING AND FORWARDED TO THE DESIGN ENGINEER FOR FURTHER REVIEW. ALL PIPING TO HVAC UNITS THAT COOL ELECTRIC ROOMS SHALL BE LOCATED ABOVE ENTRY DOOR. THE SPRINKLER PIPING TO PROVIDE PROTECTION FOR THE ELECTRIC ROOM IS PREFERRED TO ENTER THE ROOM ABOVE THE ENTRY DOOR AND RUN DOWN THE AISLE SPACES OF THE ROOM. ALL INSTALLATIONS SHALL BE FULLY COORDINATED AMONGST ALL TRADES.
- 3.12 ELECTRICALLY-OPERATED EQUIPMENT: VERIFICATION AND SUBSTITUTION: FEEDERS AND OVER-CURRENT DEVICES (INCLUDING STARTERS, DISCONNECTS, ETC.) HAVE BEEN DESIGNED BASED ON INFORMATION PROVIDED BY THE RESPONSIBLE CONSULTANT AND/OR DESIGNATED SUPPLIER. PRIOR TO ROUGH-IN, COORDINATE WITH THE APPROPRIATE TRADE AND/OR INSTALLER TO DETERMINE THAT THE ACTUAL NAMEPLATE ELECTRICAL REQUIREMENTS MATCH THIS DESIGN. ALL ADDITIONAL ELECTRICAL COSTS RELATED TO THE CONNECTION OF EQUIPMENT WHICH VARIES FROM THE ORIGINAL SPECIFICATIONS SHALL BE RESOLVED WITHIN THE CONSTRUCTION TEAM AT NO ADDITIONAL COST TO THE OWNER.
- 3.13 ADDITIONAL SYSTEMS AND EQUIPMENT CONNECTIONS: IN ADDITION TO EQUIPMENT POWER FEEDERS AND CONNECTIONS INDICATED ON THE ELECTRICAL DRAWINGS, PROVIDE 120V CONTROL POWER CONNECTIONS TO SMOKE/FIRE DAMPERS, VAV BOXES, TEMPERATURE CONTROL, FIRE ALARM PANELS, DOOR HOLDING/LATCHING DEVICES, ETC. AS INDICATED IN THE PROJECT DRAWINGS AND SPECIFICATIONS AS WELL AS ALL DESIGN-BUILD SYSTEM DRAWING.

	POWER	MAX NO. PER	PROVIDE SMOKE
<u>ITEM</u>	SOURCE	20A CIRCUIT	<u>DETECTORS</u>
FIRE/SMOKE DAMPER	EMERGENCY	10	YES
VAV TERMINAL (NO FAN)	NORMAL (VERIFY)	10	NO
TEMPERATURE CONTROL PANEL	EMERGENCY (VERIFY)	1	NO
FIRE ALARM PANEL	EMERGENCY	1	NO
DOOR HOLDING/LATCHING DEVICES	EMERGENCY	10	NO

3.14 HOURS OF OPERATION: CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING BUSINESS OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT, AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS, AND/OR FIRE ALARM SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY OWNER OR RESIDENT ENGINEER. OUTAGES SHALL BE MOMENTARY IN NATURE, EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE.

PART FOUR - SPECIAL SYSTEMS

- 4.01 DESIGN/BUILD FIRE ALARM SYSTEM: THESE DOCUMENTS DO NOT INDICATE DEVICES, OUTLETS, CONNECTIONS, AND CIRCUITRY NECESSARY FOR A COMPLETE FIRE ALARM SYSTEM. PROVIDE A COMPLETE, NEW FIRE ALARM DETECTION AND ALARM SYSTEM WITH CLASS 1 CIRCUITING INCLUDING, BUT NOT LIMITED TO, INITIATING DEVICES, DUCT DETECTORS, ADA HORN/STROBES, ETC. WHICH SHALL BE IN FULL COMPLIANCE WITH ALL LOCAL, STATE, AND ADA REQUIREMENTS. CONTROL PANEL SHALL INCLUDE INTEGRAL STANDBY BATTERIES, CHARGER, AND MUNICIPAL TIE MODULE OR AGENCY APPROVED AUTO-DIALER CONNECTED TO THE TELEPHONE SYSTEM (CONNECTION AND MONITORING CHARGES BY OWNER). SUBMIT PROPOSED DESIGN AND OBTAIN FIRE MARSHAL APPROVED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK. AFTER RECEIPT OF PLAN APPROVAL BY THE FIRE MARSHAL, PROVIDE ONE (1) SET OF STAMPED DRAWINGS (PRINT OR ELECTRONIC COPY) ALONG WITH AN APPROVED EQUIPMENT SUBMITTAL TO THE ELECTRICAL ENGINEER. ALL CONNECTIONS TO SYSTEM SHALL BE PERFORMED BY FACTORY-CERTIFIED TECHNICIAN AND SHALL BE ACCEPTED BY OWNER'S SYSTEM-MONITORING AGENCY.
- 4.02 THIRD PARTY TESTING: PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ALL EQUIPMENT, CONDUCTORS, GROUND FAULT, GROUND FAULT COORDINATION STUDY WITH REPORT PREPARATION, ETC. AS REQUIRED BY THE NEC, AHJ AND ALL OTHER GOVERNING AUTHORITIES.



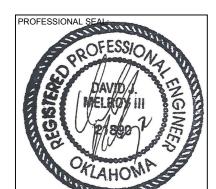
lames R. Childers Architect, Inc.

45 South 4th Street

Fort Smith, AR 72901

479-783-2480

www.childersarchitect.com



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GENERAL NOTES

FOOD SERVICE SYSTEM NOTES

THESE DRAWINGS INDICATE ELECTRICAL POWER FEEDS ONLY TO FOOD SERVICE EQUIPMENT AND SYSTEMS. SEE KITCHEN DRAWINGS (K- SERIES) PREPARED BY THE FOOD SERVICE CONSULTANT FOR EXPLANATIONS OF LOADS, SYMBOLS, MOUNTING HEIGHTS, ETC., AND FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT INDICATED ON THESE DRAWINGS, INCLUDING:

EXTENSIONS TO EQUIPMENT FROM OUTLET BOXES, SPECIALTY RECEPTACLES, CORD SETS, MULTIPLE CONNECTIONS FROM SINGLE OUTLETS, POWER AND CONTROL INTER-CONNECTIONS FROM COMPRESSOR RACK TO FIELD EQUIPMENT AND MISCELLANEOUS POWER AND CONTROL INTERCONNECTIONS.

- 2. REFERENCE OVERALL FOOD SERVICE DRAWINGS FOR DESCRIPTIONS OF EQUIPMENT AND SYSTEMS.
- 3. ALL CONDUIT STUB-UPS, AS INDICATED ON THE KITCHEN EQUIPMENT DRAWINGS, SHALL BE ROUTED BELOW FINISHED FLOOR, 3/4" MINIMUM, UNLESS OTHERWISE NOTED AS LARGER.
- 4. ALL RECEPTACLES WITHIN FOOD SERVICE AREAS SHALL BE SELF TESTING 'GFCI' TYPE.
- 5. ALL DEVICE COVER PLATES SHALL BE STAINLESS STEEL.
- 6. PROVIDE "TAYMAC" #S1/2G SERIES WEATHERPROOF RECESSED RECEPTACLE COVERS FOR ALL ABOVE COUNTER RECEPTACLES IN BAR AND SINK AREAS.
- 7. FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH 'SEAL-TITE' FLEXIBLE CONDUIT.
- . PROVIDE MOISTURE PROOF SEAL-OFFS FOR ALL CONDUITS ENTERING/LEAVING COOLER AND FREEZER BOXES. ASSEMBLE, INSTALL AND LAMP LIGHTING FIXTURES AND WIRING DEVICES PROVIDED WITH COOLERS AND FREEZERS. PROVIDE COMPLETE INTERNAL CIRCUITING AND CONNECTIONS.
- 9. PROVIDE POWER INTERCONNECTION BETWEEN FREEZER FAN COILS / DEFROST HEATERS AND COMPRESSOR RACKS. MINIMUM CIRCUITING = 5 #12, 1"C. CONFIRM REQUIREMENTS PRIOR TO ROUGH-IN.
- 10. ALL EQUIPMENT LOCATED BELOW THE EXHAUST HOOD(S) WITHIN FOOD PREPARATION AREAS SHALL BE INTERLOCKED WITH THE HOOD FIRE SUPPRESSION SYSTEM TO SHUNT POWER TO THIS EQUIPMENT UPON ACTIVATION OF THE FIRE SYSTEM. FOR ALL BRANCH CIRCUITS SERVING ELECTRICALLY-OPERATED EQUIPMENT POSITIONED BENEATH THE EXHAUST HOOD(S), THIS MAY BE ACCOMPLISHED WITH THE USE OF SHUNT-TRIP TYPE CIRCUIT BREAKERS, A CONTACTOR- CONTROLLED PANELBOARD(S), OR LOOSE CONTACTORS MOUNTED WITHIN A NEMA 4X ENCLOSURE (POSITIONED ADJACENT ANSUL CONTROL PANEL) - REFER TO DESIGN DRAWINGS FOR ADDITIONAL INFORMATION AND CLARIFICATION.
- 11. KITCHEN HOOD EXHAUST FANS AND MAKE-UP AIR UNITS SHALL BE INTERLOCKED AND THE CONTROL CIRCUITS SHALL BE ROUTED THROUGH DRY CONTACTS PROVIDED IN THE FIRE PROTECTION SYSTEM. PROVIDE ADDITIONAL RELAYS AS REQUIRED.
- 12. PROVIDE 120V SERVICE AND CONNECTIONS TO GAS SOLENOID VALVES. INTERCONNECT WITH HOOD CONTROL AND FIRE SUPPRESSION SYSTEMS.
- 13. SUPPLEMENTAL LED TASK LIGHTING: PROVIDE (20) UNITS (LENGTHS AS REQUIRED) UNDER- COUNTER WET LOCATION LINE VOLTAGE TASK LUMINAIRES, COMPLETE WITH LEDs, CONNECTOR(S), CORD SET(S), AND LOCAL SWITCHING AS REQUIRED, CSL ECO-COVE LED "ECV" SERIES OR EQUAL. LOCATE AS DIRECTED FOR SUPPLEMENTAL TASK LIGHTING, OR AS REQUIRED TO PROVIDE MINIMUM FIFTY (50) FOOTCANDLE LIGHTING LEVELS. RETURN EXCESS TO OWNER.
- 14. PROVIDE RACEWAY SYSTEMS FOR REFRIGERATION AND BEVERAGE SERVICE LINES AS DIRECTED IN FOOD SERVICE DRAWINGS (ALL LONG-RADIUS SWEEPS). PROVIDE PULL CANS AND GUTTERS AS REQUIRED. ASSEMBLE ALL RACEWAY SYSTEM JOINTS WITH SILICONE CAULK TO PROVIDE A CONTINUOUS WATERTIGHT ASSEMBLY.
- 15. IT IS ANTICIPATED THAT CERTAIN FOOD SERVICE EQUIPMENT WILL BE DELIVERED TO THE PROJECT WITH DIFFERENT LOADS AND VOLTAGE/PHASE REQUIREMENTS THAN ORIGINALLY DESIGNED. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS %%UBASE%%U BID AN ALLOWANCE SUFFICIENT TO COVER RECIRCUITING AND RECONNECTION OF INSTALLED WORK FOR THE FOLLOWING ITEMS:

CHANGE (10) EQUIPMENT ITEMS FROM SINGLE-PHASE TO THREE-PHASE OR FROM THREE-PHASE TO SINGLE-PHASE, SAME OR SIMILAR LOAD.

CHANGE (10) EQUIPMENT ITEMS FROM (+/-) 2 KW TO (+/-) 4 KW, SAME VOLTAGE, PHASE

CHANGE (5) EQUIPMENT ITEMS FROM 120/208-VOLT TO 480-VOLT OR FROM 480-VOLT TO 120/208-VOLT, SAME OR SIMILAR LOAD.

16. ALL EXPOSED INCANDESCENT LAMPS IN DINING AND FOOD PREPARATION AREAS SHALL BE AN APPROVED 'UL' COATED LAMP.

SINGLE-LINE NOTES

- ALL SWITCHGEAR, PANELBOARDS, ETC. ARE TO BE UL LISTED FOR THEIR LOCATION AND INTENDED USE. ALL EQUIPMENT SHALL BE BRACED FOR FAULT CURRENT RATINGS ASSOCIATED WITH THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM.
- 2. ALL EQUIPMENT, FEEDERS, CIRCUITS, SERVICES, ETC. SHALL BE GROUNDED PER NEC ARTICLE 250.
- 3. ALL FEEDERS ARE BASED ON COPPER CONDUCTORS AND SHALL CARRY A SEPARATE GROUNDING CONDUCTOR.
- 4. ALL SWITCHES OR CIRCUIT BREAKERS ARE THREE POLE UNLESS OTHERWISE NOTED.
- 5. ALL SWITCHBOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT. MAIN SWITCHBOARDS SHALL CONTAIN CUSTOMER METERING FOR VOLTAGE, AMPACITY, DEMAND AND PEAK DEMAND PER PHASE.
- 6. ALL MAIN SWITCHBOARDS SHALL HAVE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION. COORDINATE WITH LOCAL UTILITY COMPANY.
- 7. ALL DISTRIBUTION BOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH COPPER BUSSING AND ALL
- SECTIONS SHALL ALIGN IN FRONT. 8. ALL DISTRIBUTION PANELBOARDS SHALL BE OF QMR/CCB CONSTRUCTION WITH COPPER BUSSING WITH A
- DEPTH OF LESS THAN 14" AND ALL SECTIONS SHALL ALIGN IN FRONT. 9. PANELBOARDS SHALL HAVE FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR-IN-DOOR)
- WITH LOCKABLE MASTER-KEYED FLUSH CATCHES AND BOLT-ON CIRCUIT BREAKERS. FLUSH MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: (1) 3/4" CONDUIT FOR EACH THREE (3) SPARE/SPACE POLES.
- 10. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH NEC ARTICLE 500, 511, AND/OR 514 SHALL BE INSTALLED MINIMUM 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL AND SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER THAN 6'-7" A.F.F. PER NEC ARTICLE 404.
- 11. ALL ELECTRICAL EQUIPMENT (i.e. SWITCHBOARDS, PANELBOARDS, DISCONNECTS, STARTERS, ETC.) SHALL HAVE A NAMEPLATE. THE NAMEPLATE SHALL BE PHENOLIC WITH ENGRAVED WHITE LETTERS AND SHALL PROVIDE THE FOLLOWING INFORMATION:
 - LINE 1 "EQUIPMENT NAME"
 - LINE 2 "FED FROM ..." LINE 3 - "VOLTAGE, AMPACITY, PHASE"
 - LINE 4 "DATE INSTALLED"

NAMEPLATES SHALL BE SIZED BASED ON THE FOLLOWING:

SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS: * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC.: * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

NAMEPLATE COLORS SHALL BE AS FOLLOWS:

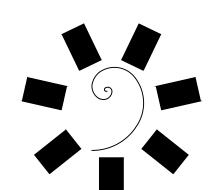
BLACK = NORMAL POWER RED = LIFE SAFETY/EMERGENCY POWER BLUE = STANDBY POWER

GREEN = INVERTER POWER ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. NO SELF ADHESIVE

TO WATER DAMAGE THAT IS LOCATED IN AREAS OTHER THAN AT GRADE.

NAMEPLATES ARE ALLOWED.

- 12. ALL CONDUCTORS HAVE BEEN REVIEWED FOR VOLTAGE DROP. CONTRACTOR IS TO NOTIFY ENGINEER IF FIELD CONDITIONS SUBSTANTIALLY INCREASE CONDUCTOR LENGTH.
- 13. ALL FLOOR-STANDING EQUIPMENT LOCATED AT GRADE OR BELOW SHALL HAVE A MINIMUM 4" HIGH HOUSEKEEPING PAD INSTALLED UNDER THEM. PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. THE INSTALLATION OF A PAD SHALL ALSO APPLY TO EQUIPMENT THAT MIGHT BE SUSCEPTIBLE
- 14. PROVIDE PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDERVOLTAGE FOR ALL MOTOR-RELATED CIRCUITS.
- 15. PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ALL EQUIPMENT, CONDUCTORS, GROUND FAULT, GROUND FAULT COORDINATION STUDY WITH REPORT PREPARATION, ETC.



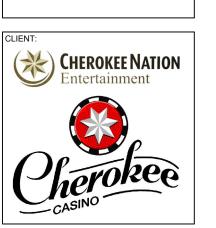
Iames R. Childers Architect, Inc.

45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com



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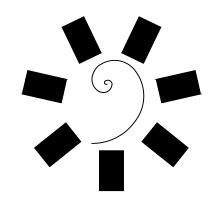
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SINGLE LINE AND FOOD SERVICE SYSTEM NOTES

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OSITION	PANEL	CIRCUIT#	HOMERUN	SLOT BANK	CONTROL CHANNEL
01	TCSP1		1 1/4"C		
02	TCSP1		1 1/4"C		
03	TCSP1		1 1/4"C		
04	TCSP1		1 1/4"C		
05 06	TCSP1		1 1/4"C 1 1/4"C		
07	TCSP1		1 1/4 C		
08	TCSP1	1	1 1/4 °C		
09	TCSP1	+ +	1 1/4"C		
10	TCSP2		1 1/4"C		
11	TCSP2		1 1/4"C		
12	TCSP2		1 1/4"C		
13	TCSP2	1 1	1 1/4"C		
14	TCSP2		1 1/4"C		
15	TCSP2		1 1/4"C		
16	TCSP2		1 1/4"C		
17	TCSP2		1 1/4"C		
18	TCSP2		1 1/4"C		
19	TCSP2		1 1/4"C		
20	TCSP3		1 1/4"C		1
21	TCSP3		1 1/4"C		1
22	TCSP3	 	1 1/4"C		<u> </u>
23	TCSP3	 	1 1/4"C		-
24	TCSP3		1 1/4"C		-
25	TCSP3	+ +	1 1/4"C		1
26 27	TCSP3	+ +	1 1/4"C 1 1/4"C		-
	TCSP3		1 1/4°C 1 1/4"C		
28	TCSP3	+ +	1 1/4 °C		
30	TCSP4	+ +	1 1/4 C		
31	TCSP4	1	1 1/4 °C		
32	TCSP4	+ +	1 1/4 °C		<u> </u>
33	TCSP4	+ +	1 1/4"C		
34	TCSP4	+ +	1 1/4"C		†
35	TCSP4		1 1/4"C		<u> </u>
36	TCSP4	† †	1 1/4"C		
37	TCSP4	† †	1 1/4"C		
38	TCSP4		1 1/4"C		
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40	TCSP5		1 1/4"C		
41	TCSP5		1 1/4"C		
42	TCSP5		1 1/4"C		
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					FEE	DER S	SCHE	DUL	Е					
FEEDER	AMPERE	CONDUIT AND V	WIRE (COPPE	R) THWN, 3Ф, 3W.	GROUND	FEEDER	AMPERE	COND	UIT AND WIR	E (COF	PPER)	ТНWN, 3Ф, 4W.	GROUND
1	20	1/2" -	- (3 -	#12	#12	31	20		1/2" -	4	-	#12	#12
2	30	1/2" -	- ;	3 -	#10	#10	32	30		3/4" -	4	-	#10	#10
3	40	3/4" -	- ;	3 -	#8	#10	33	40		1" -	4	-	#8	#10
4	50	1" -	- ;	3 -	#6	#10	34	50		1 1/4" -	4	-	#6	#10
5	60	1" -	- ;	3 -	#6	#10	35	60		1 1/4" -	4	-	#6	#10
6	70	1 1/4" -	- ;	3 -	#4	#8	36	70		1 1/4" -	4	-	#4	#8
7	80	1 1/4" -	- ;	3 -	#4	#8	37	80		1 1/4" -	4	-	#4	#8
8	100	1 1/4" -	- ;	3 -	#2	#8	38	100		1 1/2" -	4	-	#2	#8
9	125	1 1/2" -	- ;	3 -	#1	#6	39	125		1 1/2" -	4	-	#1	#6
10	150	1 1/2" -	- ;	3 -	#1/0	#6	40	150		2" -	4	-	#1/0	#6
11	175	2" -	- ;	3 -	#2/0	#6	41	175		2" -	4	-	#2/0	#6
12	200	2" -	- ;	3 -	#3/0	#6	42	200		2" -	4	-	#3/0	#6
13	225	2" -	- ;	3 -	#4/0	#4	43	225		2 1/2" -	4	-	#4/0	#4
							43T	225		2 1/2" -	4	-	#4/0	#2
14	250	3" -	- ;	3 -	#250 K	#4	44	250		3" -	4	-	#250 K	#4
							44T	250		3" -	4	-	#250 K	#2
15	300	4" -	- ;	3 -	#350 K	#4	45	300		4" -	4	-	#350 K	#4
16	350	4" -	- ;	3 -	#500 K	#2	46	350		4" -	4	-	#500 K	#2
17	400	4" -	- ;	3 -	#500 K	#2	47	400		4" -	4	-	#500 K	#2
							47T	400	(2)	2" -	8	-	#3/0	(2) #1/0
18	500	(2) 3" -	- (6 -	#250 K	(2) #2	48	500	(2)	3" -	8	-	#250 K	(2) #2
							48T	500	(2)	3" -	8	-	#250 K	(2) #1/0
19	600	(2) 4" -	- (6 -	#350 K	(2) #1	49	600	(2)	4" -	8	-	#350 K	(2) #1
20	800	(2) 4" -	- (6 -	#500 K	(2) #1/0	50	800	(2)	4" -	8	-	#500 K	(2) #1/0
							50T	800	(3)	4" -	12	-	#350 K	(3) #2/0
21	1000	(4) 4" -	- ,	12 -	#250 K	(4) #2/0	51	1000	(4)	4" -	16	-	#250 K	(4) #2/0
							51T	1000	(4)	4" -	16	-	#250 K	(4) #2/0
22	1200	(4) 4" -	- <i>'</i>	12 -	#350 K	(4) #3/0	52	1200	(4)	4" -	16	-	#350 K	(4) #3/0
23	1600	(5) 4" -	- <i>'</i>	15 -	#500 K	(5) #4/0	53	1600	(5)	4" -	20	-	#500 K	(5) #4/0
							53T	1600	(5)	4" -	20	-	#500 K	(5) #350 K
24	2000	(6) 4" -	- ′	18 -	#500 K	(6) #250 K	54	2000	(6)	4" -	24	-	#500 K	(6) #250 K
25	2500	/=>	- 2	21 -	#500 K	(7) #350 K	55	2500	(7)	4" -	28	-	#500 K	(7) #350 K
26	3000	(0)	- 2	24 -	#500 K	(8) #400 K	56	3000	(8)	4" -	32	-	#500 K	(8) #400 K
27	4000	(4.4)	- ;	33 -	#500 K	(11) #500 K	57	4000	(11)	4" -	44	_	#500 K	(11) #500 K

TRANSFORMER SCHEDULE 480V TO 208/120V, 3Ф, 4W								
	RATING	WINDINGS		TEM	IPERAT		SECONDARY	
	KVA		AL.	150°C	115°C	30°C	GROUND	COMMENTS
T1	15	•			•		#8	
T2	30	•			•		#8	
Т3	45				•		#6	
T4	75	•			•		#2	
T5	112.5	•			•		#1/0	
Т6	150	•			•		#1/0	
T7	225	•			•		#2/0	
T8	300	•			•		#3/0	
Т9	500	•			•		#3/0	
T10	750	•			•		#3/0	
T11								



James R. Childers Architect, Inc.

45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com



ENGINEERING CONSULTANTS
370 E Windmill Lane, Suite 100
Las Vegas, NV 89123
702.896.1100
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CHEROKEE NATION ENTERTAINMENT

TAHLEQUAH, OKLAHOMA

ROJECT PHASE:
BID PACKAGE 02
(100% SET)

REVISIONS									
#	DATE	DESCRIPTION							

DATE: JOB NUMBER: 17-06
SHEET NUMBER:

E0.3

SCHEDULES

SHEET NOTES:

- 200VA, 208V TO 120V, 1PH ENCAPSULATED TRANSFORMER WITH LINE AND LOAD INLINE FUSES IN WP BOX. CONNECT WITH 3/4"C, 2#10, 1#10 GND TO WP J-BOX AND CONNECT TO CAMERA HOUSING.
- TYPICAL SECURITY CAMERA. LOCATE AT LIGHT POLES AS DIRECTED BY SECURITY DEPARTMENT. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION.
- MINIMUM 3 1/2 PULLBOX WITH BROWN FIBERGLASS LID IN LANDSCAPE AREAS OR H20 RATED IN PAVED AREAS FOR LIGHT POLE AND CAMERA POWER.
- 4 SIZE 3 1/2 PULLBOX WITH BROWN FIBERGLASS LID IN LANDSCAPE AREAS OR H20 RATED IN PAVED AREAS AS NEEDED FOR SECURITY CAMERA CABLING.
- (1) 1"C FROM PULLBOX FOR LIGHT POLE POWER AND (1) 1"C FROM PULLBOX FOR CAMERA POWER.
- (1) 1"C FROM PULLBOX TO LIGHT POLE BASE FOR SECURITY CAMERA CABLING.

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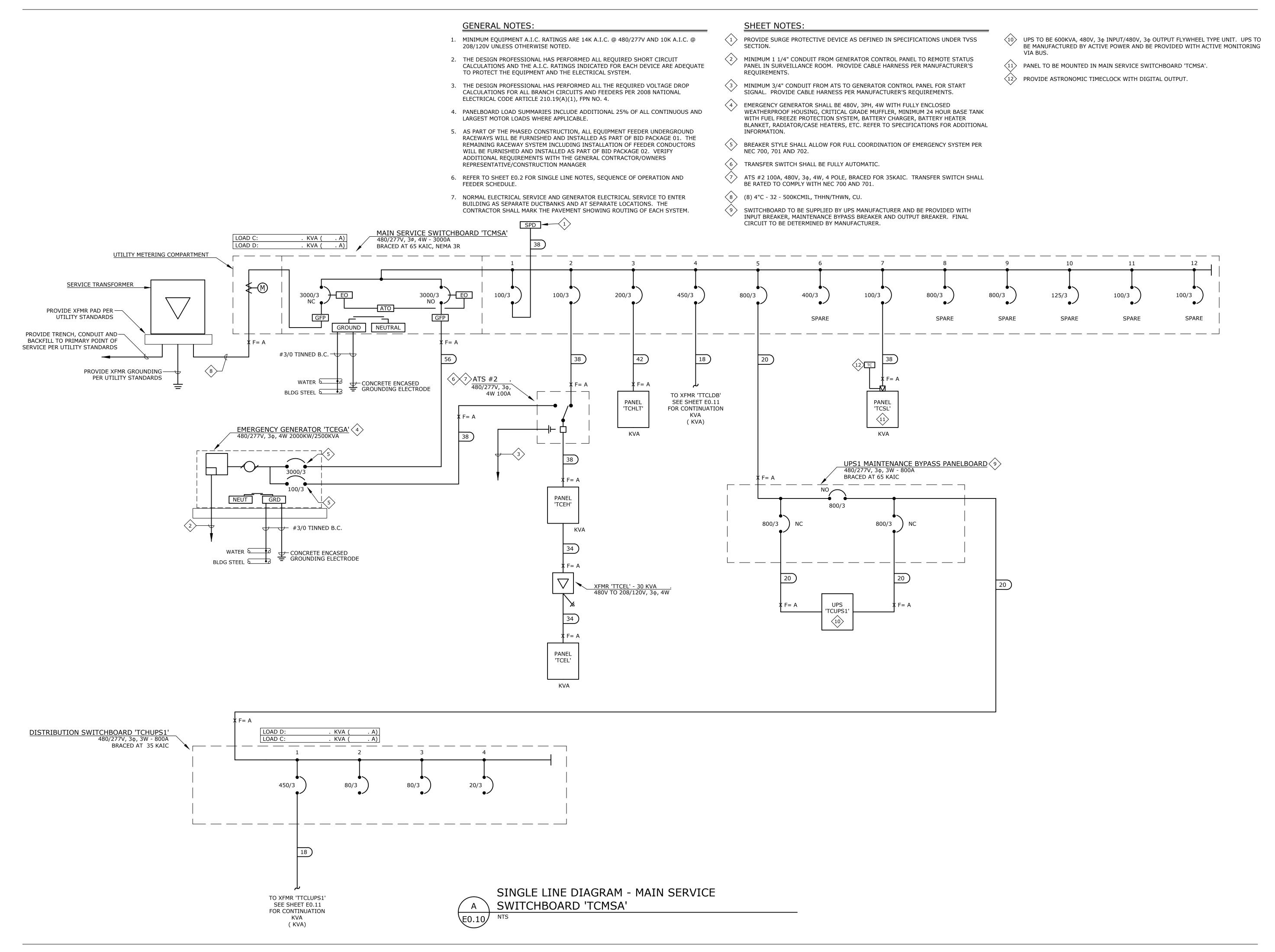
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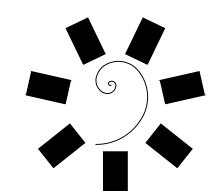
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#	DATE	DESCRIPTION

03/27/18 17-06 E0.4

> ELECTRICAL DIAGRAM

TYPICAL POLE BASE SCHEMATIC





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370 E Windmill Lane, Suite 100
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TAHLEQUAH, OKLAHOMA

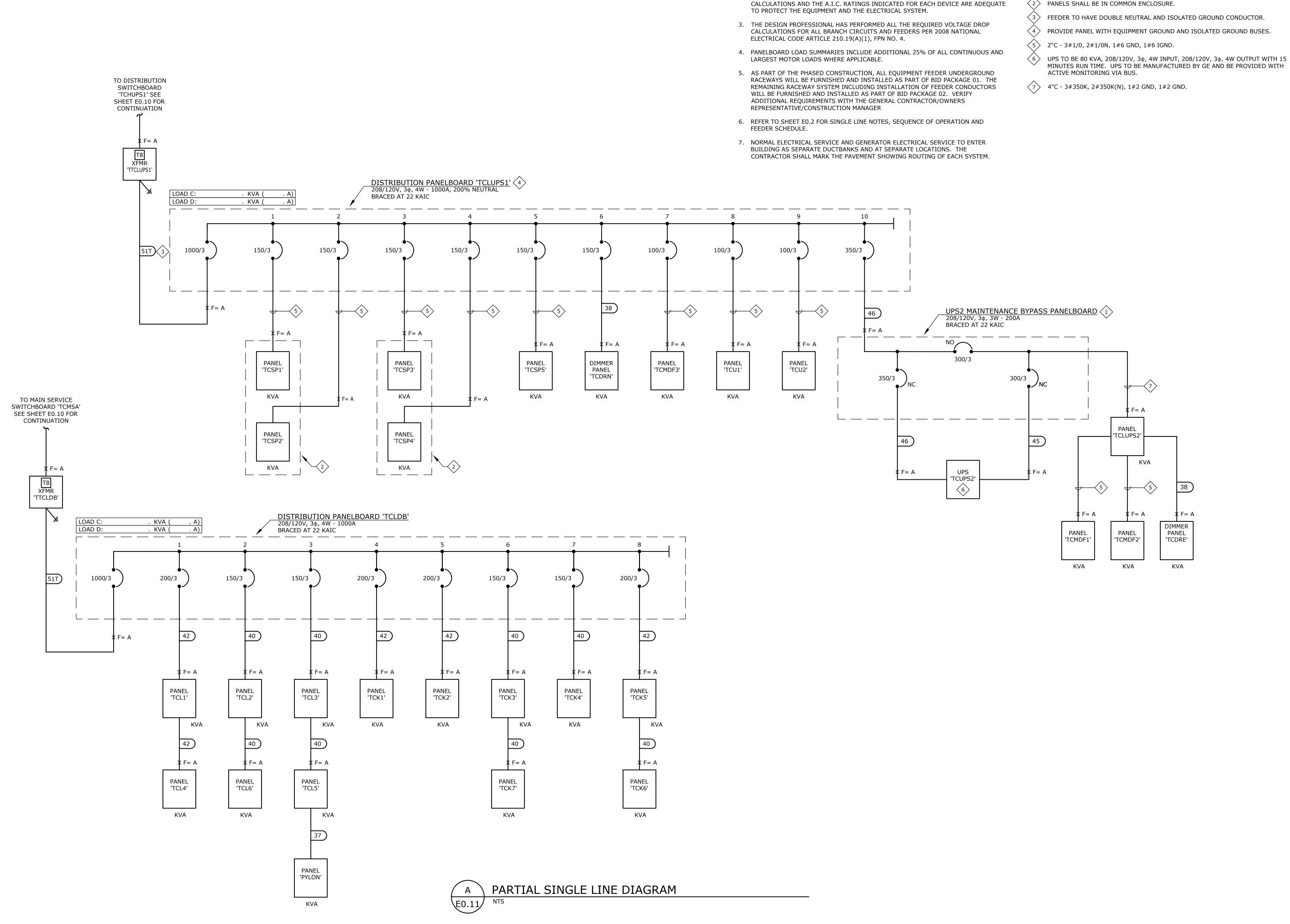
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#	DATE	DESCRIPTION								

DATE: JOB NUMBER: 17-06
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E0.10

SINGLE LINE DIAGRAM -MAIN SERVICE SWITCHBOARD 'TCMSA'



GENERAL NOTES:

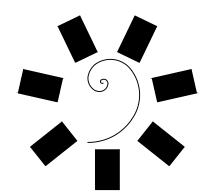
208/120V UNLESS OTHERWISE NOTED.

1. MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @

2. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT



- SWITCHBOARD TO BE SUPPLIED BY UPS MANUFACTURER AND BE PROVIDED WITH INPUT BREAKER, MAINTENANCE BYPASS BREAKER AND OUTPUT BREAKER. FINAL CIRCUIT TO BE DETERMINED BY MANUFACTURER.
- 2 PANELS SHALL BE IN COMMON ENCLOSURE.



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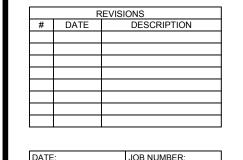
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BID PACKAGE 02 (100% SET)



03/27/18 17-06

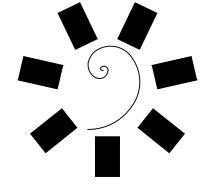
E0.11

PARTIAL SINGLE LINE DIAGRAM

- 1. MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @ 208/120V UNLESS OTHERWISE NOTED.
- 2. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE A.I.C. RATINGS INDICATED FOR EACH DEVICE ARE ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.
- 3. THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2008 NATIONAL ELECTRICAL CODE ARTICLE 210.19(A)(1), FPN NO. 4.
- 4. PANELBOARD LOAD SUMMARIES INCLUDE ADDITIONAL 25% OF ALL CONTINUOUS AND LARGEST MOTOR LOADS WHERE APPLICABLE.
- 5. AS PART OF THE PHASED CONSTRUCTION, ALL EQUIPMENT FEEDER UNDERGROUND RACEWAYS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 01. THE REMAINING RACEWAY SYSTEM INCLUDING INSTALLATION OF FEEDER CONDUCTORS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 02. VERIFY ADDITIONAL REQUIREMENTS WITH THE GENERAL CONTRACTOR/OWNERS REPRESENTATIVE/CONSTRUCTION MANAGER
- 6. REFER TO SHEET E0.2 FOR SINGLE LINE NOTES, SEQUENCE OF OPERATION AND FEEDER SCHEDULE.
- 7. NORMAL ELECTRICAL SERVICE AND GENERATOR ELECTRICAL SERVICE TO ENTER BUILDING AS SEPARATE DUCTBANKS AND AT SEPARATE LOCATIONS. THE CONTRACTOR SHALL MARK THE PAVEMENT SHOWING ROUTING OF EACH SYSTEM.

SHEET NOTES:

- PROVIDE SURGE PROTECTIVE DEVICE AS DEFINED IN SPECIFICATIONS UNDER TVSS
- MINIMUM 1 1/4" CONDUIT FROM GENERATOR CONTROL PANEL TO REMOTE STATUS PANEL IN SURVEILLANCE ROOM. PROVIDE CABLE HARNESS PER MANUFACTURER'S REQUIREMENTS.
- EMERGENCY GENERATOR SHALL BE 480V, 3PH, 4W WITH FULLY ENCLOSED WEATHERPROOF HOUSING, CRITICAL GRADE MUFFLER, MINIMUM 24 HOUR BASE TANK WITH FUEL FREEZE PROTECTION SYSTEM, BATTERY CHARGER, BATTERY HEATER BLANKET, RADIATOR/CASE HEATERS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- BREAKER STYLE SHALL ALLOW FOR FULL COORDINATION OF EMERGENCY SYSTEM PER NEC 700, 701 AND 702.
- (8) 4"C 32 500KCMIL, THHN/THWN, CU.



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45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com



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Cherokee

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TAHLEQUAH, OKLAHOMA

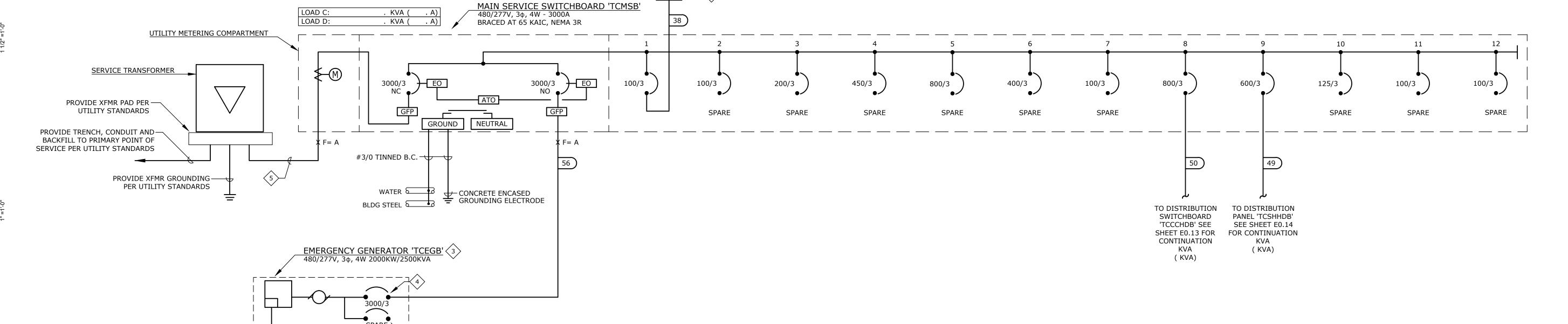
DJECT PHASE:
BID PACKAGE 02
(100% SET)

REVISIONS		
#	DATE	DESCRIPTION

DATE: JOB NUMBER: 17-06

SHEET NUMBER: E0.12

SINGLE LINE DIAGRAM -MAIN SERVICE SWITCHBOARD 'TCMSB'



⊢ #3/0 TINNED B.C.

CONCRETE ENCASED
GROUNDING ELECTRODE

WATER 5

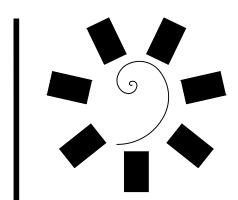
3. THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2008 NATIONAL ELECTRICAL CODE ARTICLE 210.19(A)(1), FPN NO. 4.

4. PANELBOARD LOAD SUMMARIES INCLUDE ADDITIONAL 25% OF ALL CONTINUOUS AND LARGEST MOTOR LOADS WHERE APPLICABLE.

5. AS PART OF THE PHASED CONSTRUCTION, ALL EQUIPMENT FEEDER UNDERGROUND RACEWAYS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 01. THE REMAINING RACEWAY SYSTEM INCLUDING INSTALLATION OF FEEDER CONDUCTORS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 02. VERIFY ADDITIONAL REQUIREMENTS WITH THE GENERAL CONTRACTOR/OWNERS REPRESENTATIVE/CONSTRUCTION MANAGER

6. REFER TO SHEET E0.2 FOR SINGLE LINE NOTES, SEQUENCE OF OPERATION AND FEEDER SCHEDULE.

7. NORMAL ELECTRICAL SERVICE AND GENERATOR ELECTRICAL SERVICE TO ENTER BUILDING AS SEPARATE DUCTBANKS AND AT SEPARATE LOCATIONS. THE CONTRACTOR SHALL MARK THE PAVEMENT SHOWING ROUTING OF EACH SYSTEM. SHEET NOTES:



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TAHLEQUAH CASINO

BID PACKAGE 02 (100% SET)

03/27/18 17-06

E0.13

PARTIAL SINGLE LINE DIAGRAM

PARTIAL SINGLE LINE DIAGRAM

200/3

150/3

40

PANEL 'KTCCCL1'

KVA

SPARE

200/3

150/3

PANEL 'KTCCCL2

KVA

SPARE

200/3

SPARE

150/3

40

PANEL 'KTCCCL3'

KVA

TO MAIN SERVICE SWITCHBOARD 'TCMSB' SEE SHEET E0.12 FOR CONTINUATION DISTRIBUTION SWITCHBOARD 'TCCCHDB' 480/277V, 3φ, 4W - 800A BRACED AT XX KAIC 450/3 200/3 200/3 SPARE SPARE T8 XFMR 'TTCCCLDB'

200/3

SPARE

PANEL 'TCCCL2'

KVA

PANEL 'TCCCL1'

200/3

SPARE

PANEL 'TCCCL3'

KVA

PANEL 'TCCCL4'

KVA

200/3

DISTRIBUTION PANELBOARD 'TCCCLDB' 208/120V, 3¢, 4W - 1000A BRACED AT XX KAIC 1000/3 150/3 150/3 150/3 150/3 40 40 40) **k** F= A

DISTRIBUTION PANELBOARD 'TCSHHDB' 480/277V, 3¢, 4W - 600A

200/3

150/3

40

PANEL

'TCSHL2'

KVA

SPARE

200/3

SPARE

150/3

40

k F= A

PANEL 'TCSHL3'

KVA

BRACED AT XX KAIC

200/3

150/3

40

PANEL 'TCSHL1'

TO MAIN SERVICE SWITCHBOARD 'TCMSB' SEE SHEET E0.12 FOR CONTINUATION

350/3

T8 XFMR 'TTCSHLDB' 200/3

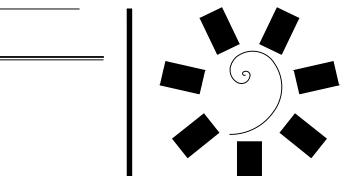
800/3

SPARE

GENERAL NOTES:

- 1. MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @ 208/120V UNLESS OTHERWISE NOTED.
- 2. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE A.I.C. RATINGS INDICATED FOR EACH DEVICE ARE ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.
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- 6. REFER TO SHEET E0.2 FOR SINGLE LINE NOTES, SEQUENCE OF OPERATION AND FEEDER SCHEDULE.
- 7. NORMAL ELECTRICAL SERVICE AND GENERATOR ELECTRICAL SERVICE TO ENTER BUILDING AS SEPARATE DUCTBANKS AND AT SEPARATE LOCATIONS. THE CONTRACTOR SHALL MARK THE PAVEMENT SHOWING ROUTING OF EACH SYSTEM.

SHEET NOTES:



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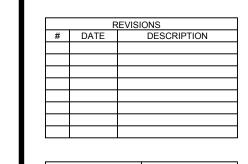




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CHEROKEE NATION ENTERTAINM
TAHLEQUAH CASINO

OJECT PHASE:
BID PACKAGE 02
(100% SET)



03/27/18 17-06
SHEET NUMBER:
E0.14

PARTIAL SINGLE LINE DIAGRAM

A PARTIAL SINGLE LINE DIAGRAM

E0.14 NTS

200/3

150/3

40

PANEL 'KTCSHL2'

KVA

150/3

40

PANEL

'KTCSHL3

KVA

SPARE

200/3

DISTRIBUTION PANELBOARD 'TCSHLDB' 208/120V, 3¢, 4W - 800A BRACED AT XX KAIC

150/3

40)

PANEL

'KTCSHL1'

KVA

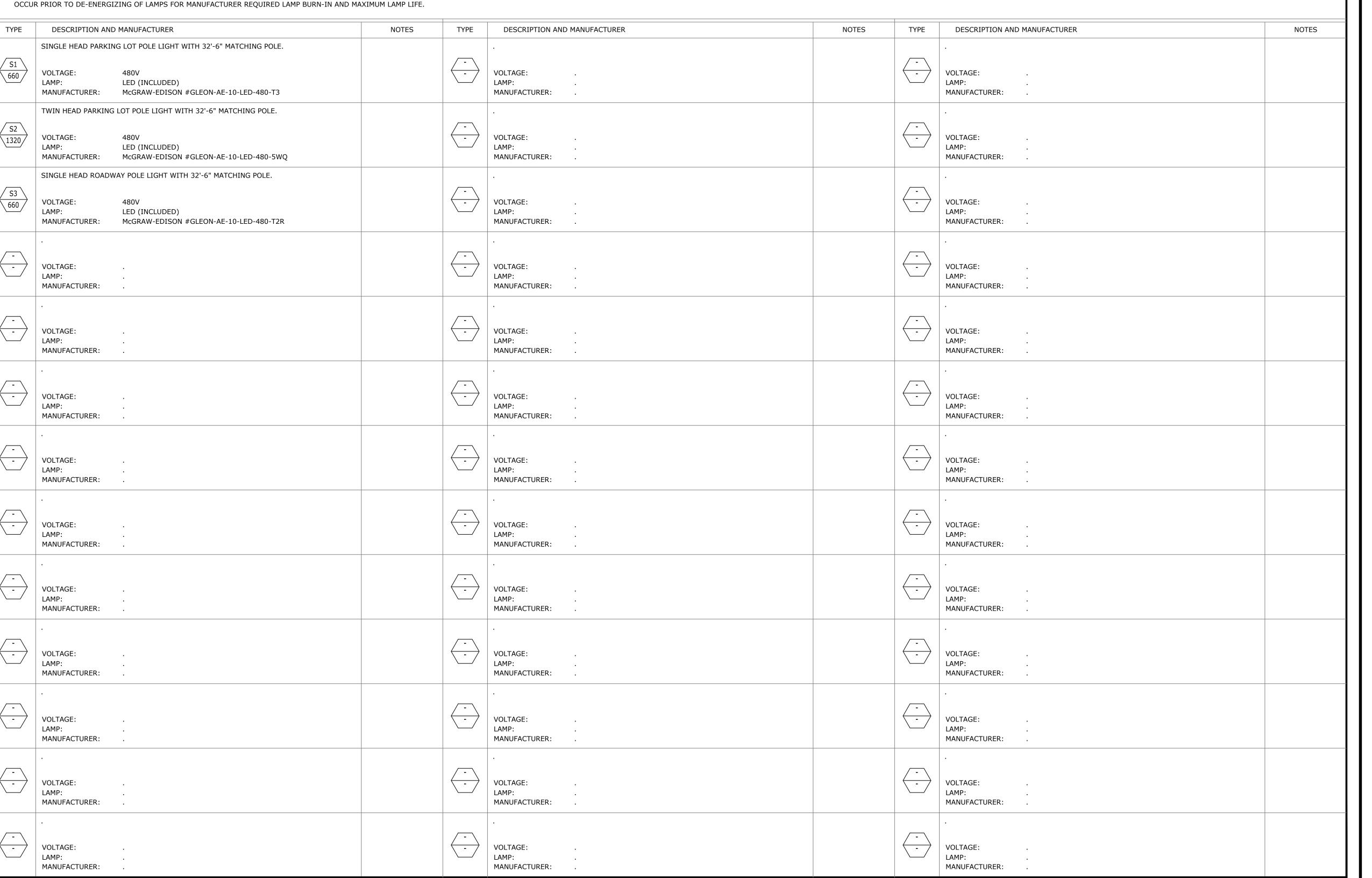
SPARE

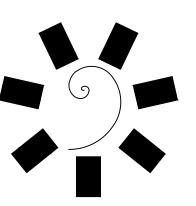
LIGHTING FIXTURE SCHEDULE

FIXTURE SCHEDULE GENERAL NOTES:

- 1. FIXTURES SHALL HAVE APPROPRIATE U.L. LABEL (i.e., DAMP OR WET) AS REQUIRED BY CODES AND ORDINANCES.
- 2. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.
- 3. ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE AND SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP(S) AND BALLAST(S)/DRIVER(S).
- 4. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
- 5. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS.
- 6. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY ACCESSORIES AND HARDWARE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- 7. ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S)/DRIVER(S) THAT HAVE U.L. AND CBM LABELS. ALL BALLASTS/DRIVERS SHALL CONFORM TO TITLE 24 AND/OR INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIREMENTS FOR PERFORMANCE. PROVIDE MULTIPLE BALLASTS/ DRIVERS FOR DUAL-LEVEL SWITCHING AND WIRING (i.e. TANDEM) AS INDICATED ON THE PLANS.
- 8. UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF THIRTY (30) HOURS SHALL

- 9. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.
- 10. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS, ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLAST(S), DRIVER(S) AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS SHALL BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
- 11. PROVIDE CLEARANCES FROM COMBUSTIBLES, A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.
- 12. PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
- 13. FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING IN COMPLIANCE WITH NEC ARTICLE 700.
- 14. EMERGENCY LIGHTING UNITS SHALL BE EQUIPPED WITH FACTORY-INSTALLED INTEGRAL TEST SWITCHES AND PILOT LIGHTS.
- 15. PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR GASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
- 16. LUMINAIRES THAT CONTAIN A BALLAST, POWER SUPPLY OR DRIVER THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE SO AS TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF POWER ALL CONDUCTORS (INCLUDING THE GROUNDED CONDUCTOR IF ANY). IN ACCORDANCE WITH NEC ARTICLE 410, THE LINE-SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE LOCATED SO AS TO BE ACCESSIBLE TO QUALIFIED PERSONS FOR SERVICING OR MAINTAINING THE BALLAST, POWER SUPPLY OR DRIVER.
- 17. ALL FLUORESCENT LAMPS SHALL BE OF A LOW MERCURY DESIGN, HAVE A MINIMUM CRI RATING OF 80 AND 3500^K COLOR TEMPERATURE UNLESS NOTED OTHERWISE.
- 18. CHARACTERISTICS OF LED LUMINAIRES SHALL MEET OR EXCEED THE FOLLOWING MINIMUM STANDARDS UNLESS OTHERWISE INDICATED:
 - L8/50 80% OF LUMEN OUTPUT AT 50,000 HOURS, WITH FUNCTIONAL LIFESPAN GREATER THAN 60,000 HOURS (LED ELEMENTS AND POWER SUPPLIES)
 - CRI EQUIVALENT TO OR GREATER THAN 80
 EFFICACY EQUIVALENT TO OR GREATER THAN 80 LUMENS/WATT
 - CCT UNIFORMITY TO (3) MacADAM ELLIPSES
 - MINIMUM AMBIENT TEMPERATURE RATINGS: INTERIOR = 25°C (77°F), EXTERIOR = 45°C (113°F)
 - MINIMUM INGRESS PROTECTION RATINGS: INTERIOR = IP30, EXTERIOR = IP60





James R. Childers Architect, Inc.

45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com



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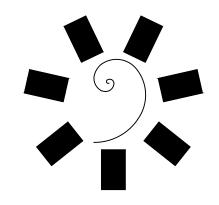
BID PACKAGE 02 (100% SET)

REVISIONS				
#	DATE	DESCRIPTION		
	-			

DATE: JOB NUMBER: 17-06
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LIGHTING FIXTURE SCHEDULE



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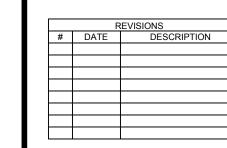


CHEROKEE NATION Entertainment

CHEROKEE NATION ENTERTAINMENT

TAHLEQUAH, OKLAHOMA

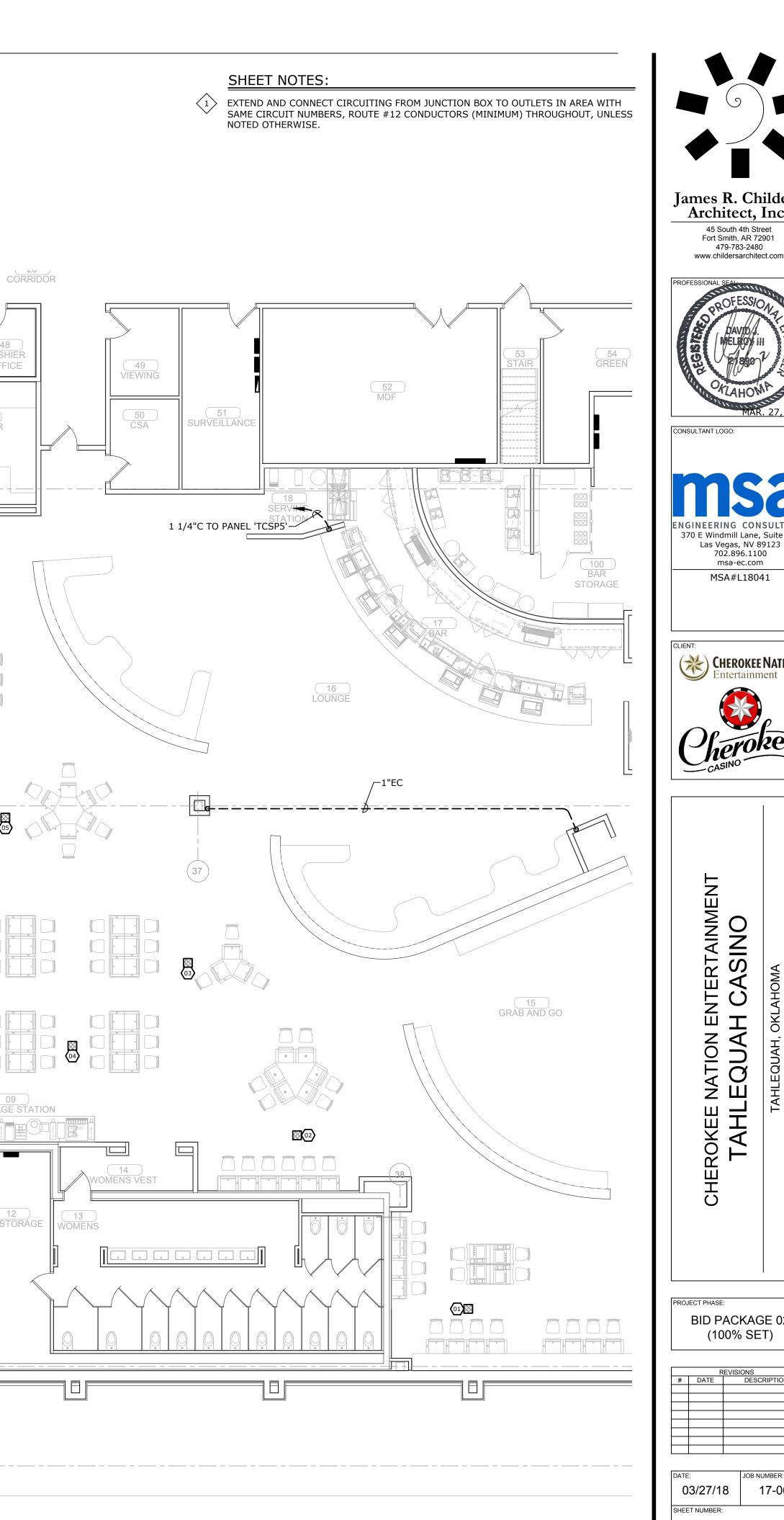
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03/27/18 17-06

E1.0

ELECTRICAL OVERVIEW PLAN



04 IDF OFFICE

05 IDF

07 PLAYERS CLUB

29 08 STORAGE

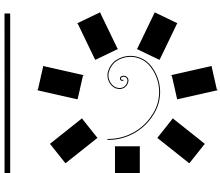
94 Break Out

CAGE MANAGER

ENLARGED POWER PLAN - GAMING

1/8" = 1'-0"

43 CASHIER



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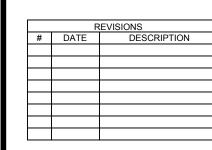


ENGINEERING CONSULTANTS 370 E Windmill Lane, Suite 100 Las Vegas, NV 89123 702.896.1100 msa-ec.com MSA#L18041



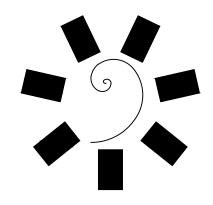
CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO

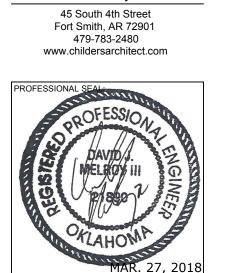
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03/27/18 E1.1

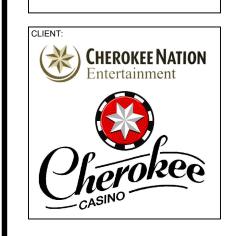
ENLARGED POWER PLAN - GAMING





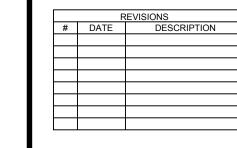
SULTANT LOGO:





CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO

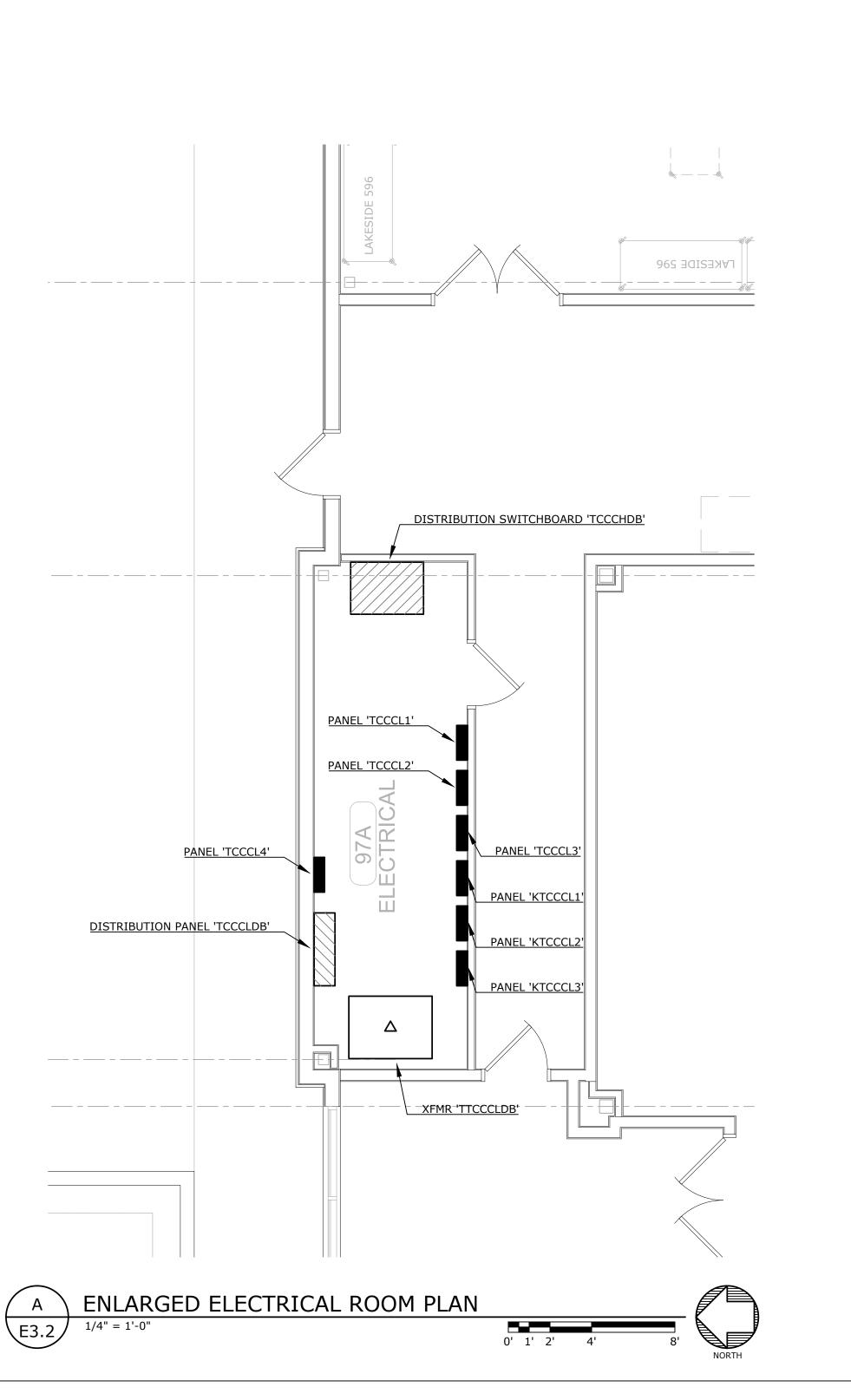
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(100% SET)

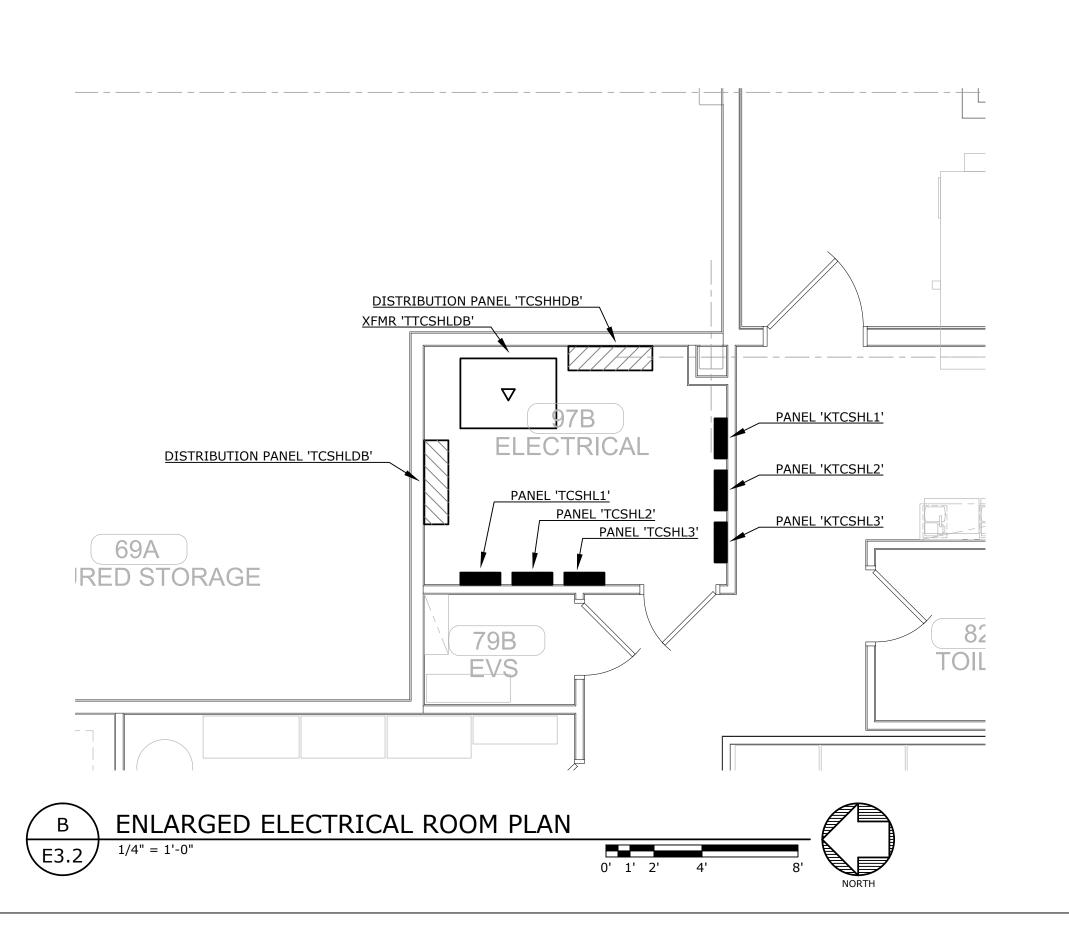


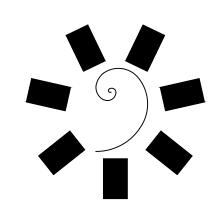
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SHEET NUMBER: E3.1

ENLARGED ELECTRICAL ROOM PLAN









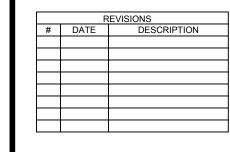
SULTANT LOGO:





CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

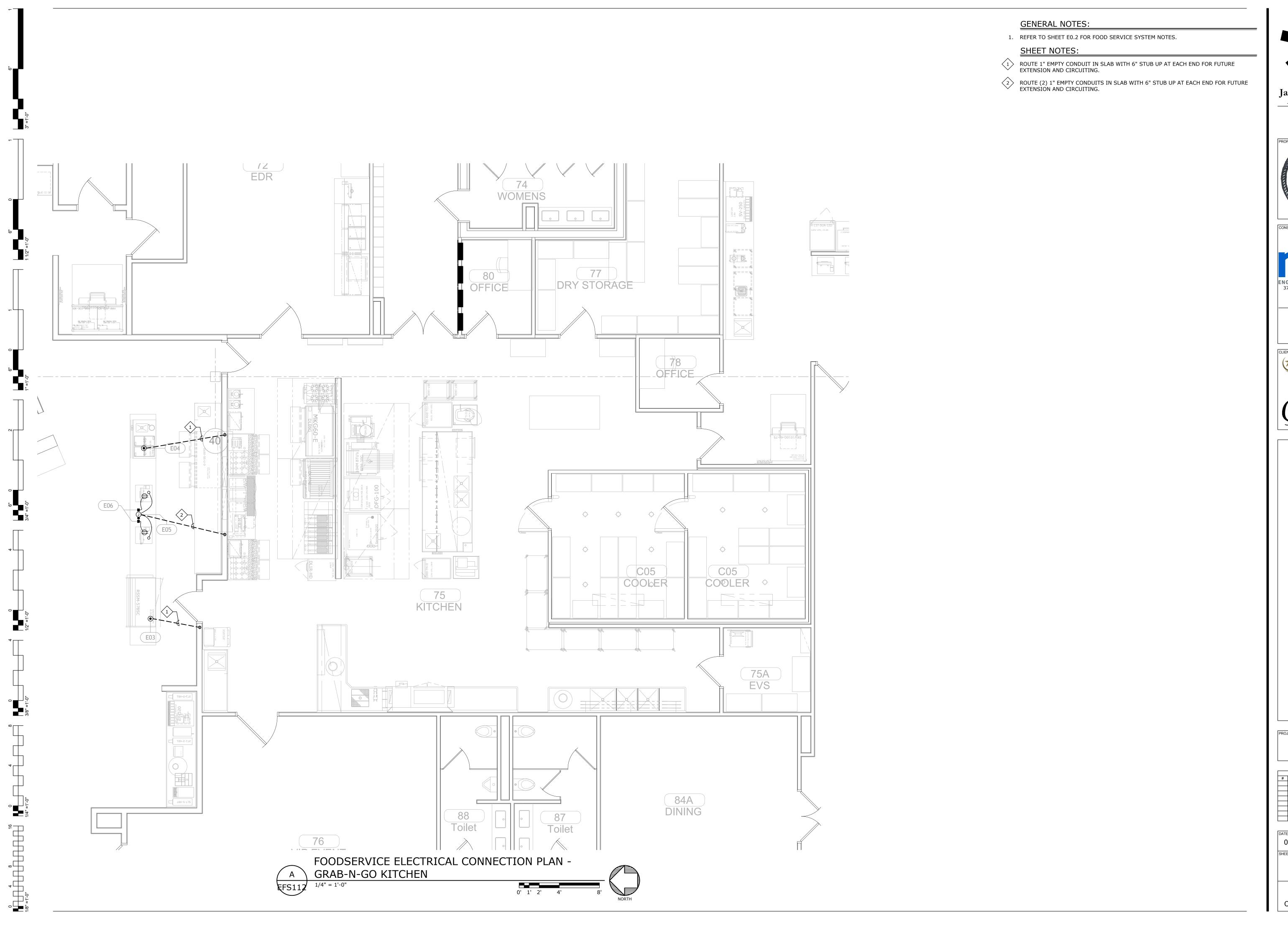


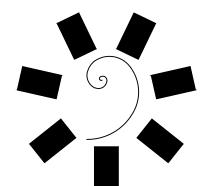
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SHEET NUMBER:

E3.2

ENLARGED ELECTRICAL ROOM PLANS





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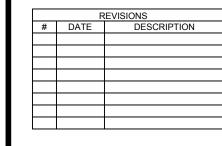






CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO

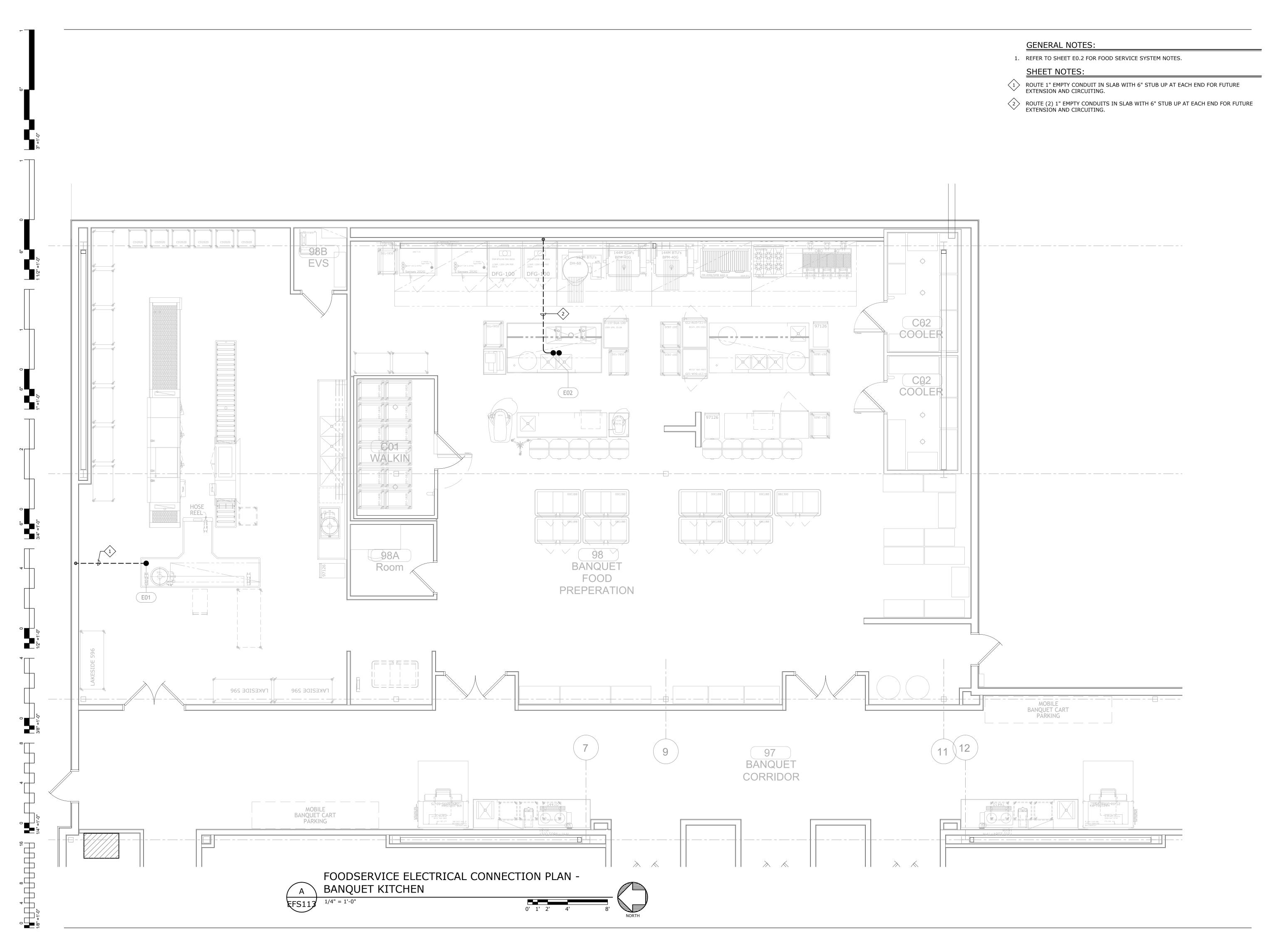
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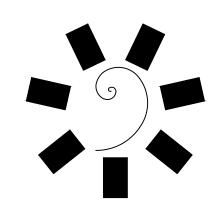


03/27/18 17-06

EFS112

FOODSERVICE ELECTRICAL CONNECTION PLAN



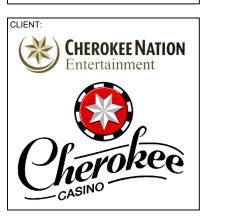


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CONSULTANT LOGO:

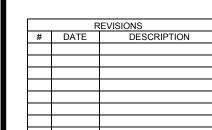




CHEROKEE NATION ENTERTAINMENT

TAHLEQUAH, OKLAHOMA

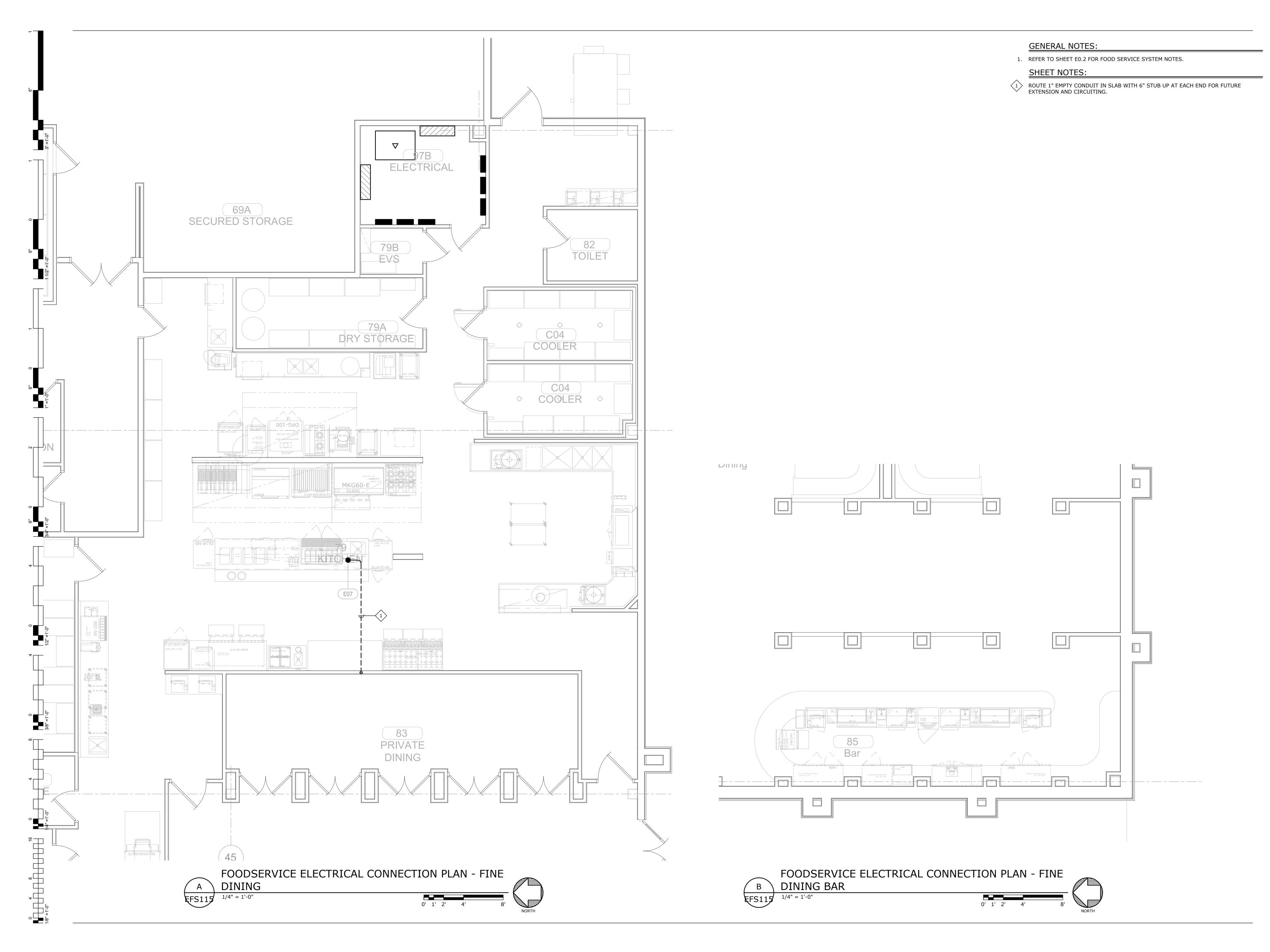
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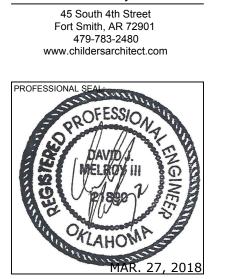
DATE: JOB NUMBER: 17-06

EFS113

FOODSERVICE ELECTRICAL CONNECTION PLAN







ULTANT LOGO:

ENGINEERING CONSULTANTS
370 E Windmill Lane, Suite 100
Las Vegas, NV 89123
702.896.1100
msa-ec.com

MSA#L18041



CHEROKEE NATION ENTERTAINMENT

TAHLEQUAR OKLAHOMA

BID PACKAGE 02 (100% SET)

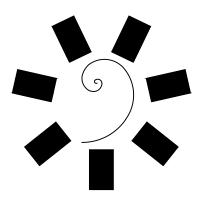
REVISIONS				
#	DATE	DESCRIPTION		

DATE: JOB NUMBER: 17-06

SHEET NUMBER:

EFS115

FOODSERVICE ELECTRICAL CONNECTION PLAN



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SULTANT LOGO:



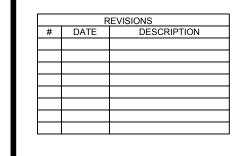


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CHEROKEE NATION ENTERTAINMENT

TAHLEQUAR OKLAHOMA

BID PACKAGE 02 (100% SET)

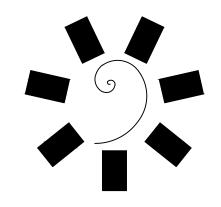


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SHEET NUMBER:

ES1.0A

ELECTRICAL SITE PLAN - CCTV INFRASTRUCTURE



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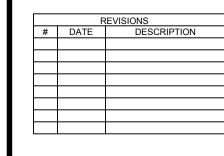






CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO

BID PACKAGE 02 (100% SET)



03/27/18 17-06

ES1.0

ELECTRICAL SITE PLAN